

**INSTALLATION RESTORATION  
PROGRAM**

**PRELIMINARY ASSESSMENT/  
SITE INSPECTION REPORT**

**VOLUME II**

**APPENDICES A-G**

**157th AIR CONTROL GROUP  
JEFFERSON BARRACKS  
AIR NATIONAL GUARD  
MISSOURI AIR NATIONAL GUARD  
ST. LOUIS, MISSOURI  
MARCH 1997**



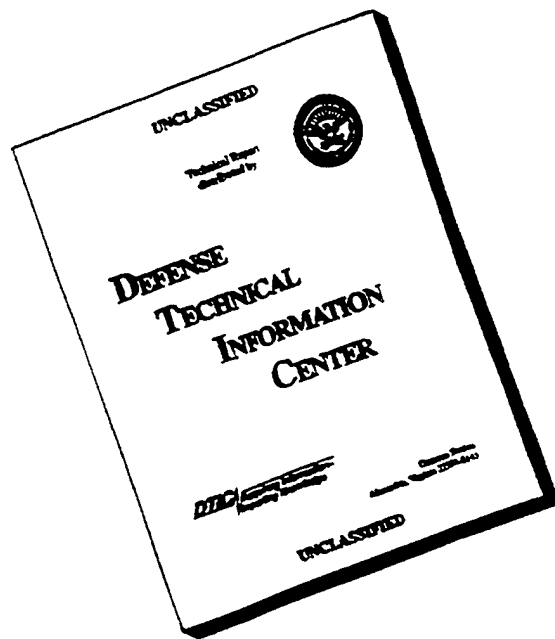
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*Prepared For*  
**ANGRC/CEVR  
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AUTHOR(S) Russell Cason, CPG		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Operational Technologies, Corp., 4100 NW. Loop 410, Suite 230, San Antonio, TX 78229-4253		8. PERFORMING ORGANIZATION REPORT NUMBER
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13. ABSTRACT (Maximum 200 words)  <p>This PA/SI Report presents information on potentially contaminated areas identified in the PA process as Areas of Concern (AOC's) at the 157<sup>th</sup> Air Control Group (ACG), Jefferson Barracks ANGS, St. Louis, MO. The Air National Guard Readiness Center/Installation Restoration Branch (ANGRC/CEVR) authorized OpTech to prepare the PA/SI Report. Work on the PA began in November 1993. Information obtained through interviews, review of station records, and field observations resulted in the identification of four potentially contaminated disposal and/or spill areas (AOC's). The four AOC's identified include the Disposal Area (AOC-A), Storage Area (AOC-B), Drainage Ditch (AOC-C), and Waste Oil Dump (AOC-D). These AOC's were investigated, using screening and confirmation activities, to determine if contamination exists that justifies further investigation as an IRP site. Considering the results of the PA/SI conducted, no additional IRP activities are warranted at AOC-A, AOC-C, and AOC-D. At AOC-B additional investigation is recommended because the vertical and areal extent of TPH contamination is in excess of MDNR cleanup guidelines. In addition, the PA/SI Report recommended a risk-based evaluation to determine action levels for PAH impacted surface soils at AOC-B.</p> <p>The MDNR concurred with the recommendations of this report.</p>		

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**MARCH 1997**

*Prepared For*

**ANGRC/CEVR  
ANDREWS AFB, MARYLAND**

*Prepared By*

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**APPENDIX A**

**MAGNETOMETER/GROUND PENETRATING RADAR RESULTS**

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## **A. Geophysical Screening Results**

A geophysical survey, using GPR and magnetometer investigation techniques as described in Subsection 5.2.2.1, was conducted on 5 and 6 December 1994.

### **A.1 Ground-Penetrating Radar Survey Results**

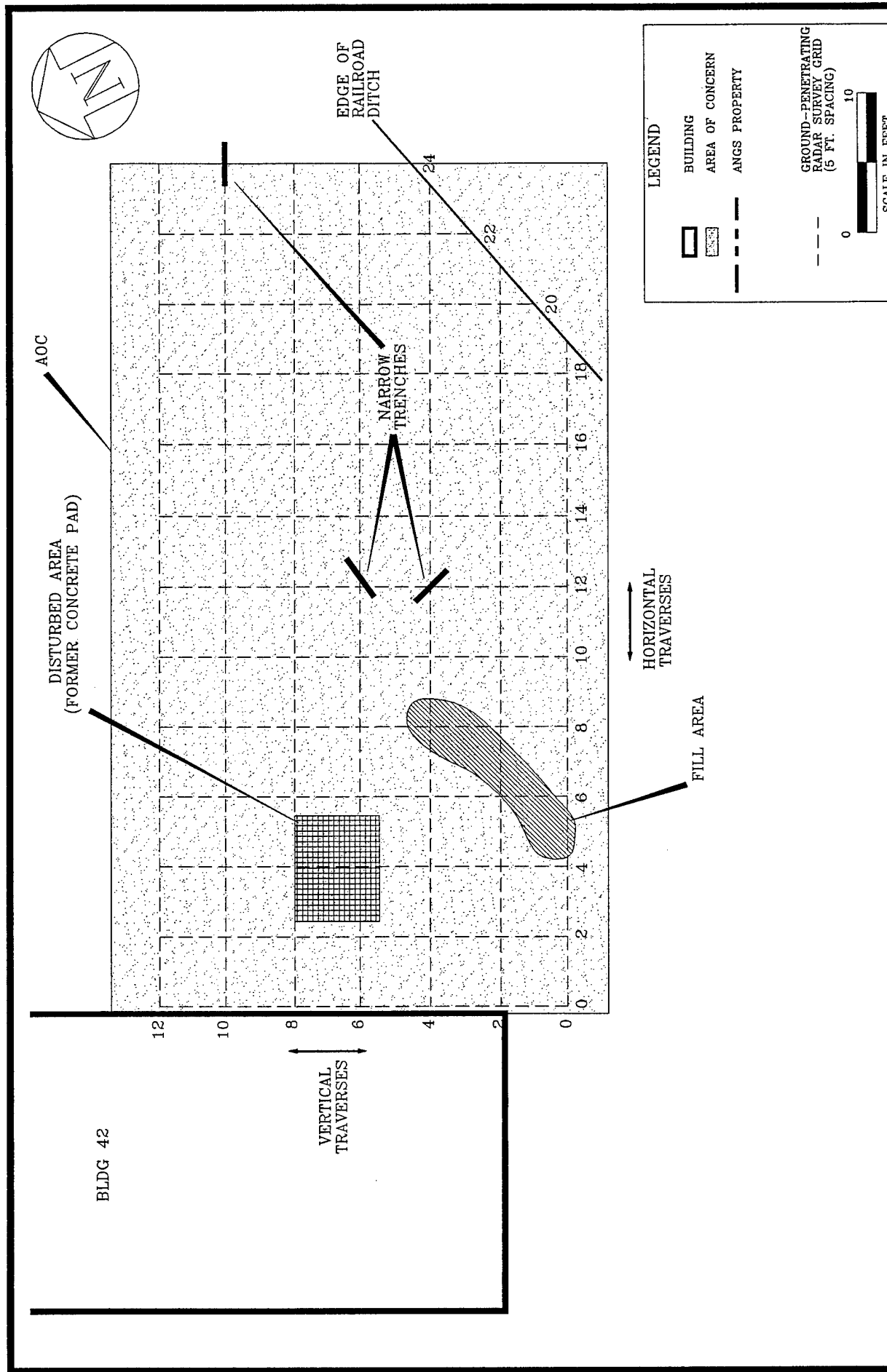
The GPR data obtained on 13 vertical and 7 horizontal traverses of AOC A did not reveal any subsurface structures which would interfere with the soil vapor survey and soil boring activities. Several minor anomalies were detected, as shown in Figure A.1. In the west central portion of the AOC, a shallow disturbed area was evident roughly where the former concrete pad was indicated on previous maps of the AOC. A filled trench area was identified in the southwestern portion of the AOC, and a couple of narrow trench structures of very short length (no pipe identified within) were identified in the central and northeastern portions of the AOC.

The GPR data obtained on 7 vertical and 7 horizontal traverses of AOC D did not reveal any subsurface structures which would interfere with the soil vapor survey and the soil boring activities. The only anomaly detected was an area on vertical traverse 5 and horizontal traverses 1 and 2 (see Figure A.2) which may have been a former trench or excavation. The extent of this trench area was better defined by completing two additional vertical and one additional horizontal traverses in the immediate vicinity (see Figure 5.2). No solid structures still in place were evident in the GPR signal at these locations.

### **A.2 Magnetometer Survey Results**

The magnetometer data obtained at AOC A is shown as total magnetic field contours and magnetic gradient contours in Figures A.3 and A.4, respectively. The data show no significant magnetic disturbances in the area which are attributable to subsurface anomalies. There is significant disturbance of the field apparent at the west end of the AOC, which is due to the Building 42 structure.

The magnetometer data obtained at AOC D is shown as total magnetic field contours and magnetic gradient contours in Figures A.5 and A.6, respectively. The data is greatly influenced by cultural effects, namely the chain-link fence and covered hazardous materials storage pad directly adjacent to the survey area's south and east sides, respectively. Aside from these cultural effects, a very minor magnetic anomaly (see Figure A.6) is shown in the immediate area of the trench detected by the GPR survey.



SOURCE: JEFFERSON BARRACKS AIR NATIONAL GUARD STATION, CIVIL ENGINEERING, 1962.

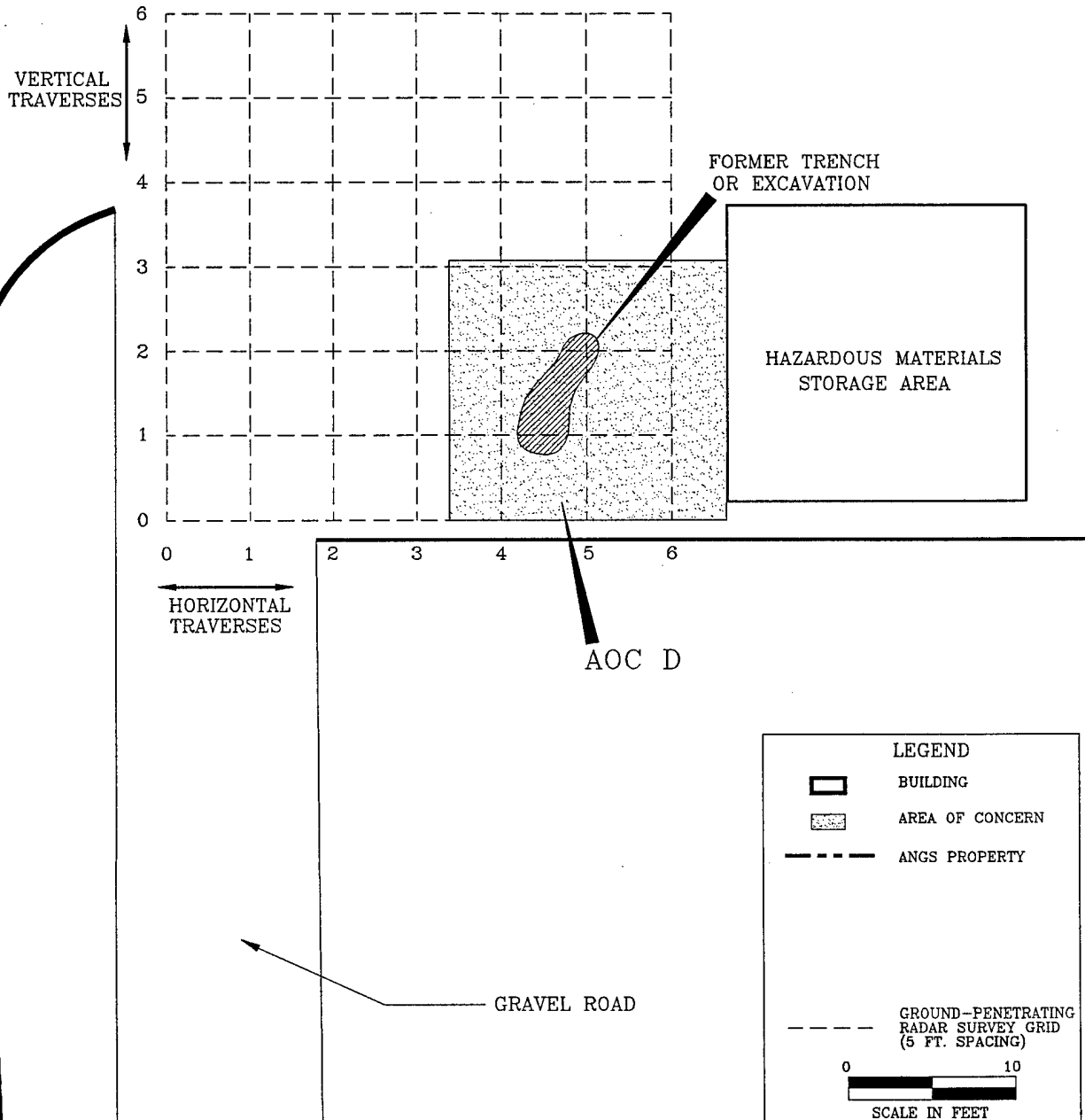
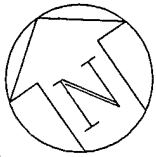
# DRAFT FIGURE A.1

JEFF/BAOC-2

## GROUND-PENETRATING RADAR SURVEY RESULTS AT AOC A 157th ACG, Jefferson Barracks ANG St. Louis, Missouri

OPTECH  
OPERATIONAL TECHNOLOGIES  
CORPORATION

APRIL 1985



SOURCE: JEFFERSON BARRACKS AIR NATIONAL GUARD STATION, CIVIL ENGINEERING, 1982.

DRAFT  
FIGURE A.2

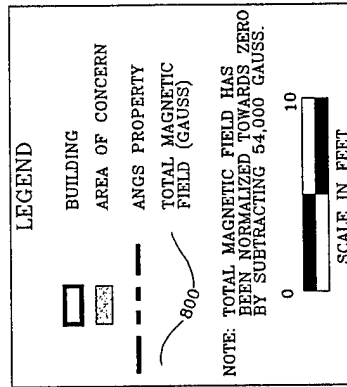
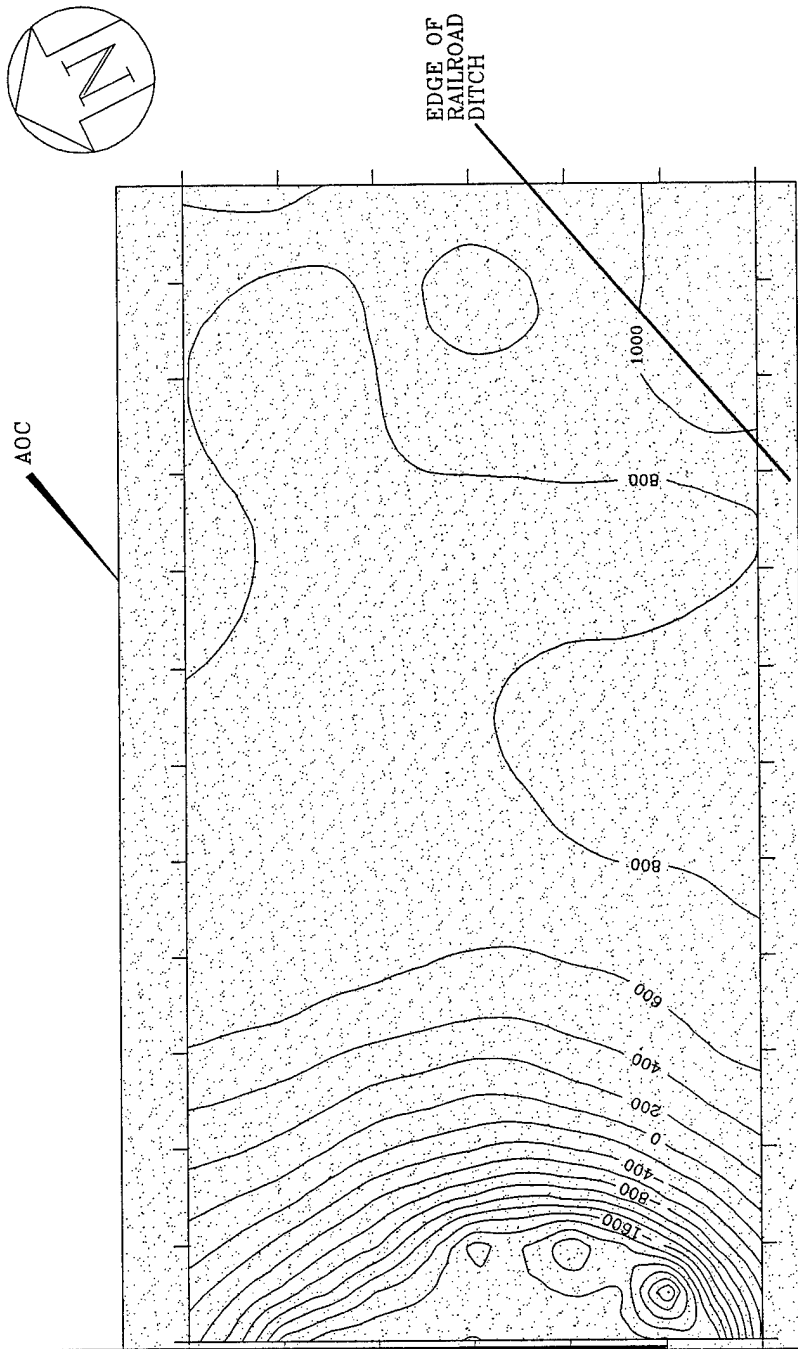
JEFF D-AOC-2

# GROUND-PENETRATING RADAR SURVEY RESULTS AT AOC D

157th ACG, Jefferson Barracks ANGS  
St. Louis, Missouri

OPTTECH  
OPERATIONAL TECHNOLOGIES  
CORPORATION

APRIL 1995



SOURCE: JEFFERSON BARRACKS AIR NATIONAL GUARD STATION, CIVIL ENGINEERING, 1962.

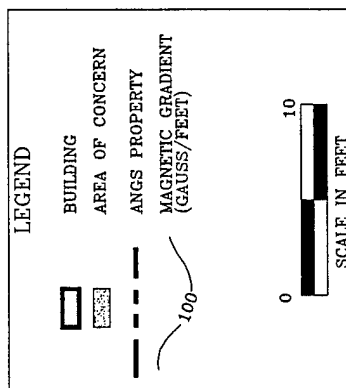
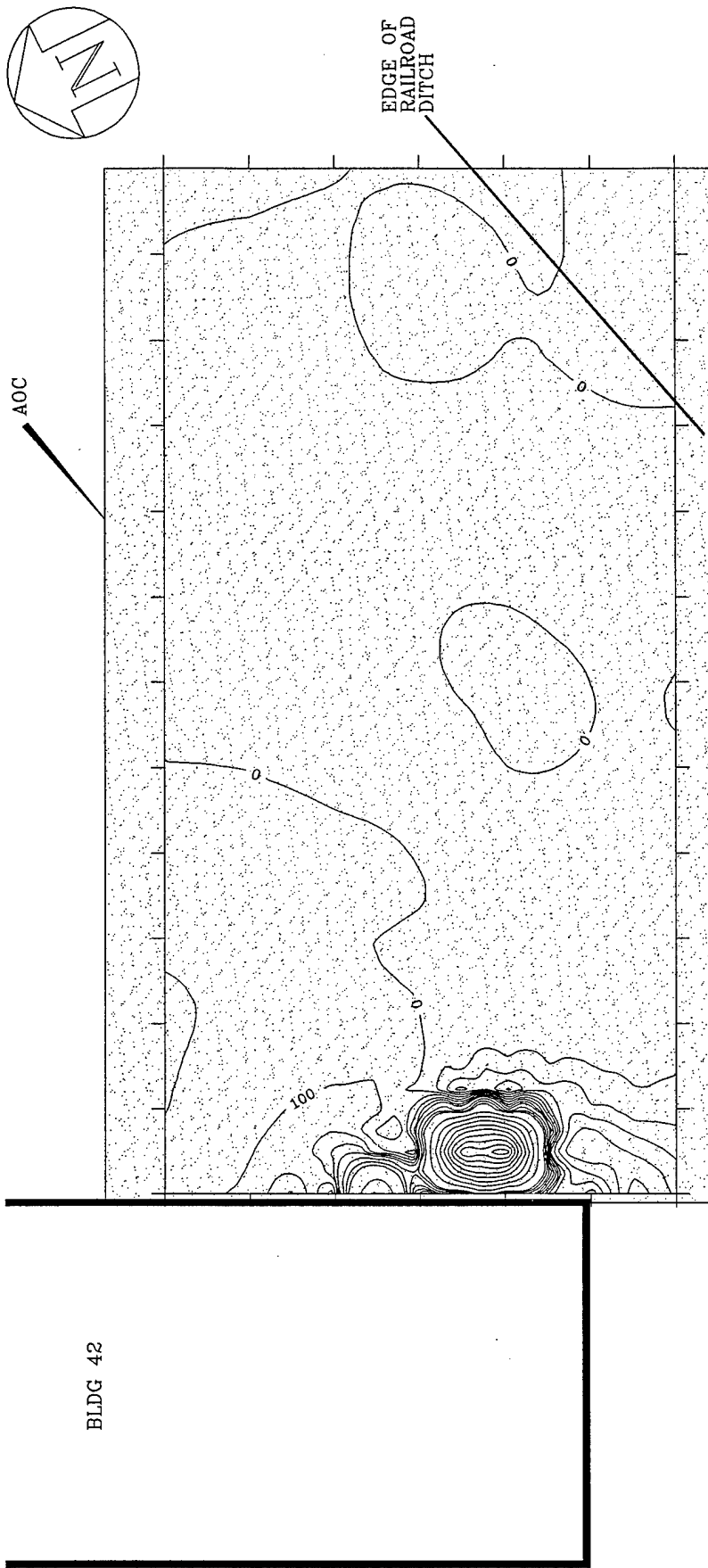
DRAFT  
FIGURE A.3

JEFF/PAOC-2

TOTAL MAGNETIC FIELD CONTOURS AT AOC A  
157th ACG, Jefferson Barracks ANG  
St. Louis, Missouri

OPTETCH  
OPERATIONAL TECHNOLOGIES  
CORPORATION

APRIL 1995



SOURCE: JEFFERSON BARRACKS AIR NATIONAL GUARD STATION, CIVIL ENGINEERING, 1962.

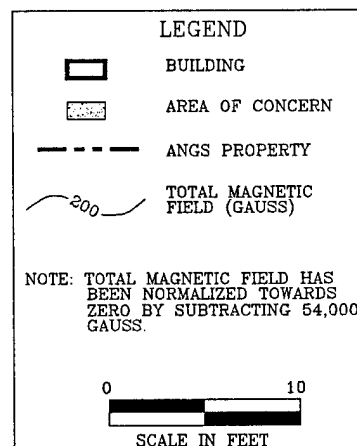
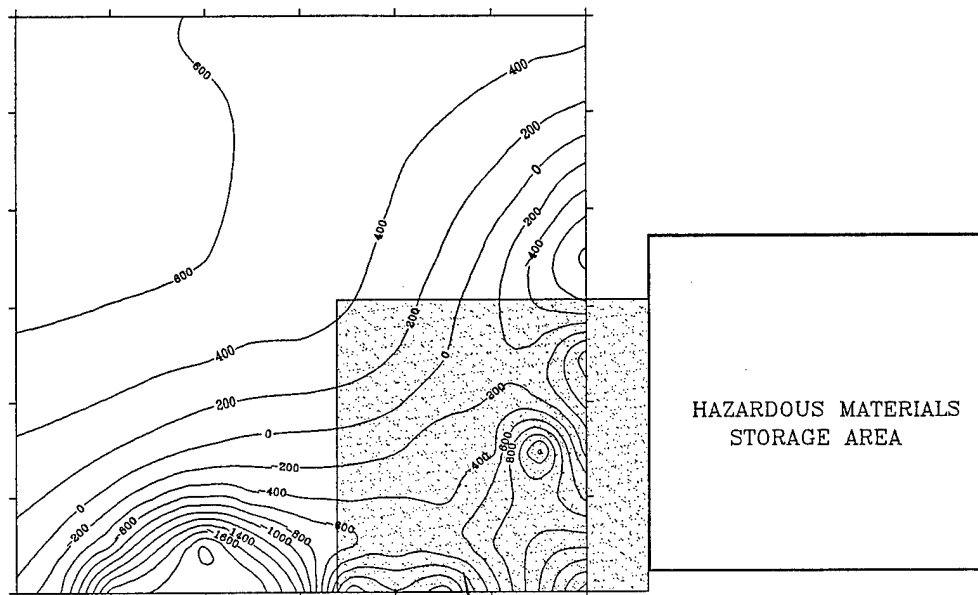
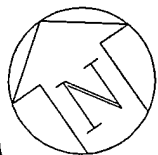
DRAFT  
FIGURE A.4

JEFF/EAOC-2

MAGNETIC GRADIENT CONTOURS AT AOC A  
157th ACG, Jefferson Barracks ANGS  
St. Louis, Missouri

O P T E C H  
OPERATIONAL TECHNOLOGIES  
CORPORATION

APRIL 1995



SOURCE: JEFFERSON BARRACKS AIR NATIONAL GUARD STATION, CIVIL ENGINEERING, 1962.

DRAFT  
FIGURE A.5

JEFF\D-AOC-2

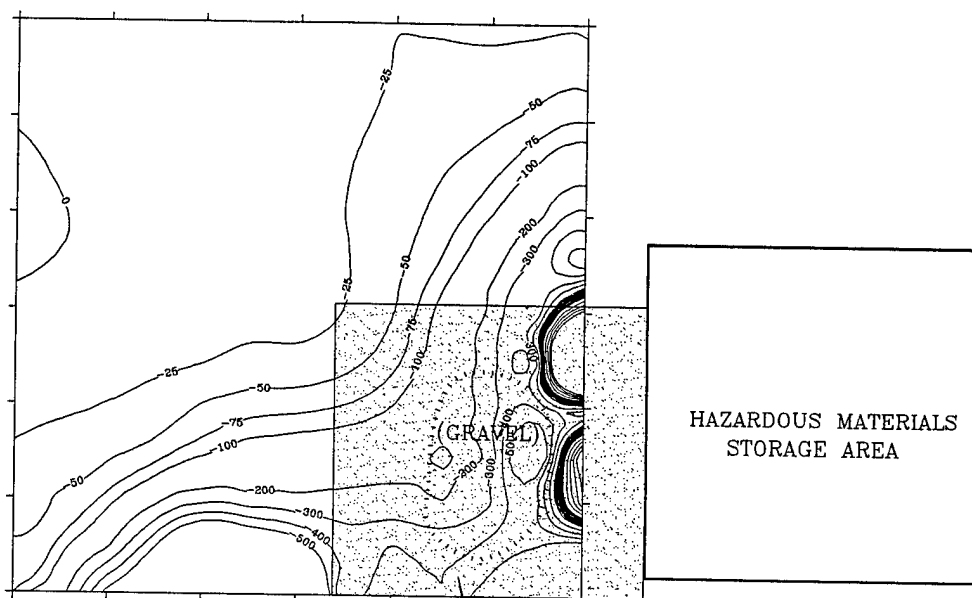
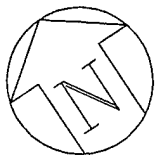
# TOTAL MAGNETIC FIELD CONTOURS AT AOC D

157th ACG, Jefferson Barracks ANG  
St. Louis, Missouri

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OPERATIONAL TECHNOLOGIES  
CORPORATION

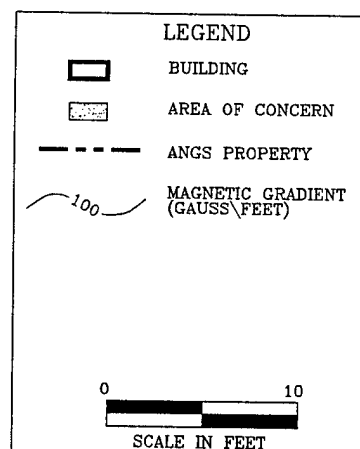
APRIL 1995

55



AOC D

GRAVEL ROAD



SOURCE: JEFFERSON BARRACKS AIR NATIONAL GUARD STATION, CIVIL ENGINEERING, 1962.

DRAFT  
FIGURE A.6

JEFF\D-AOC-2

MAGNETIC GRADIENT CONTOURS  
AT AOC D

157th ACG, Jefferson Barracks ANG  
St. Louis, Missouri

OPTTECH  
OPERATIONAL TECHNOLOGIES  
CORPORATION

APRIL 1995

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# GROUND-PENETRATING RADAR SURVEY LOG

DATE: 12/6/94 OPERATORS: MLA, DG  
 STATION: Jefferson Barracks  
 AOC/SITE: AOC-A

## GRID DESCRIPTION

Shape: Rectangle 30' wide by 60' long  
 Orientation: Longwise is E-W  
 Spacing: 5'

## GPR Traverse Lines:

Vertical: \_\_\_\_\_ Horizontal: \_\_\_\_\_  
 Compass Direction: N-S Compass Direction: E-W  
 Length: 30' Length: 50' to 60'  
 Direction Run: South to North Direction Run: West to East

Suspected Target: pipe in ground  
 Site Ground Cover: grass, gravel, dirt road  
 Site Soil Type: silt loam  
 Physical Obstructions or Interferences: wood posts @ ~50'  
horizontal, but antenna sled can go  
around OK

## EQUIPMENT

System: SIR 3  
 Radar Frequency: 300 Pulse Width (P): 3  
 Power Source: Van

## OPERATING PARAMETERS

Two-Way Slowness ( $S_2$ ): 8 (rich loam) Target Depth (D): 15'  
 Range ( $R = S_2 \cdot D \cdot 1.4$ ): 168  
 Cycles/Scan ( $CS = R/P$ ): 56  
 Filters:  
 High Pass ( $< 1/2 CS$ ): 26 Low Pass ( $> CS$ ): 100

## TEST LINES

Gain: \_\_\_\_\_  
 Surface: 6 Center: 3.2 Deep: 3.5  
 Lines/Inch: 100 Scans/Sec: 16

COMMENTS: 110 ultra traverses done.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# GROUND-PENETRATING RADAR SURVEY LOG

DATE: 12/6/94 OPERATORS: MLA, DG  
STATION: Jefferson Barracks  
AOC/SITE: AOC-K

# TRAVERSE LINE RECORD

[illegible]

# GROUND-PENETRATING RADAR SURVEY LOG

DATE: 12/6/94  
 STATION: Jeff Banach  
 AOC/SITE: AOC-A

OPERATORS: MLA, DG

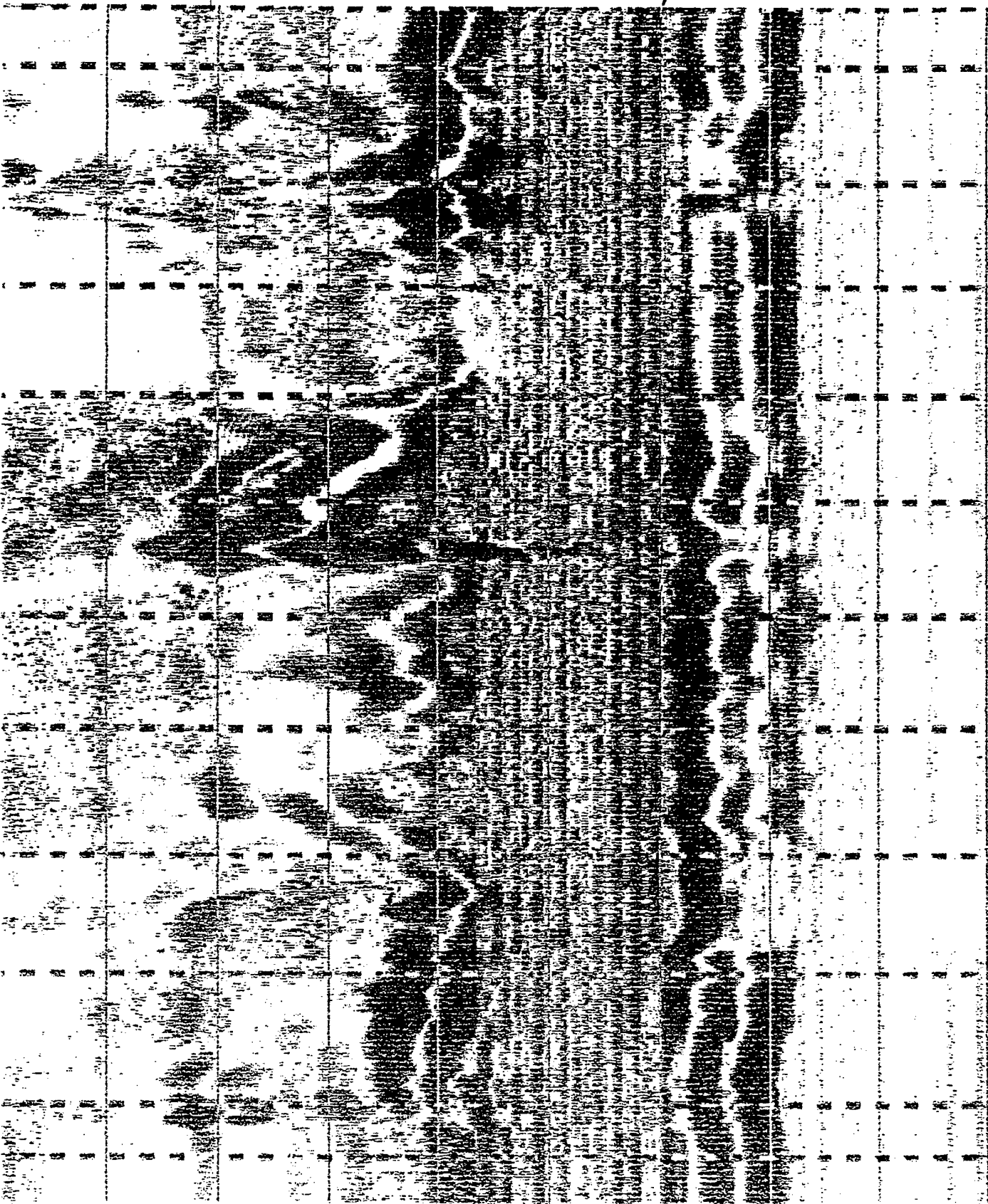
## TRAVERSE LINE RECORD

Vertical - <del>North/South</del> S → N			
Line Number	Start Location	Finish Location	Comment
0	0	30	✓
2	0	30	↓ dip out
4	0	30	✓
6	0	30	✓
8	0	30	✓
10	0	30	✓
12	0	30	✓
14	0	30	✓
16	0	30	✓
18	0	30	✓
20	5	30	slightly to west because of <del>rip</del> wood post
22	10	30	✓
24	15	30	

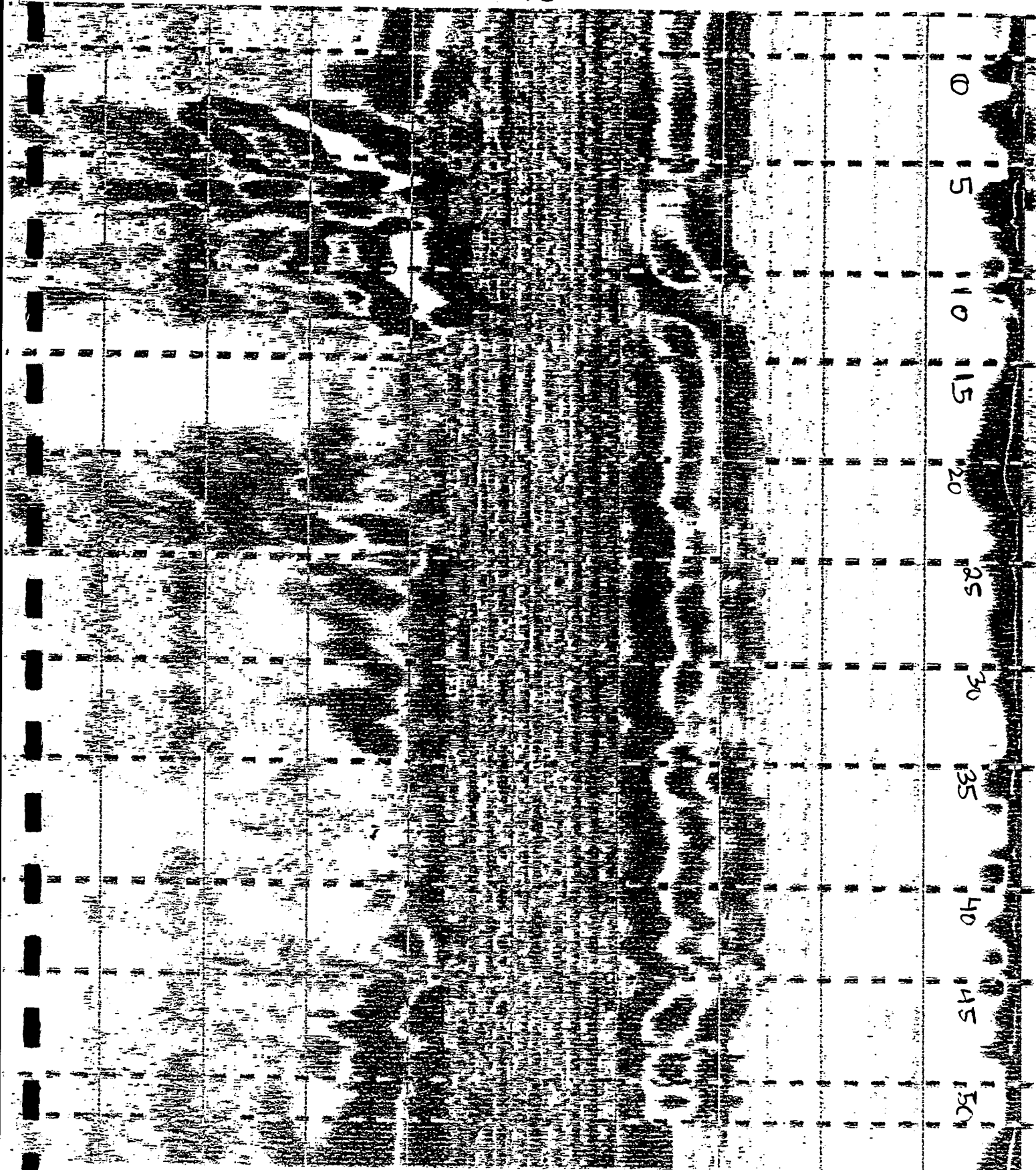
AOC-A

Horizontal Traverse  $\phi$

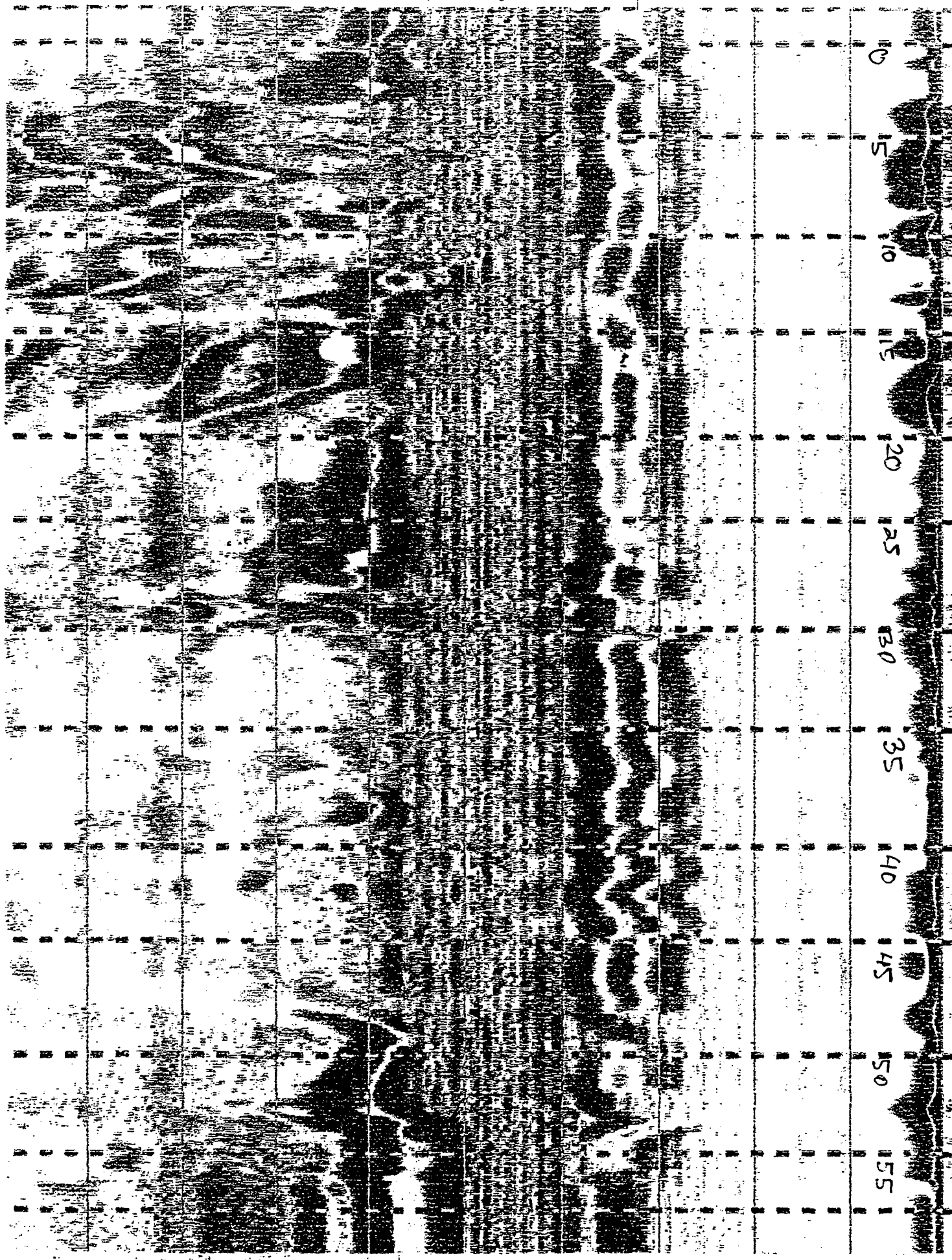
0 5 10 15 20 25 30 35 40 45



# Horizontal Traverse 2



# Horizontal Traverse 7



# Horizontal Traverse 6

0

5

10

15

20

25

30

35

40

45

50

55

60

Horizontal Traverse 8

0

5

10

15

20

25

30

35

40

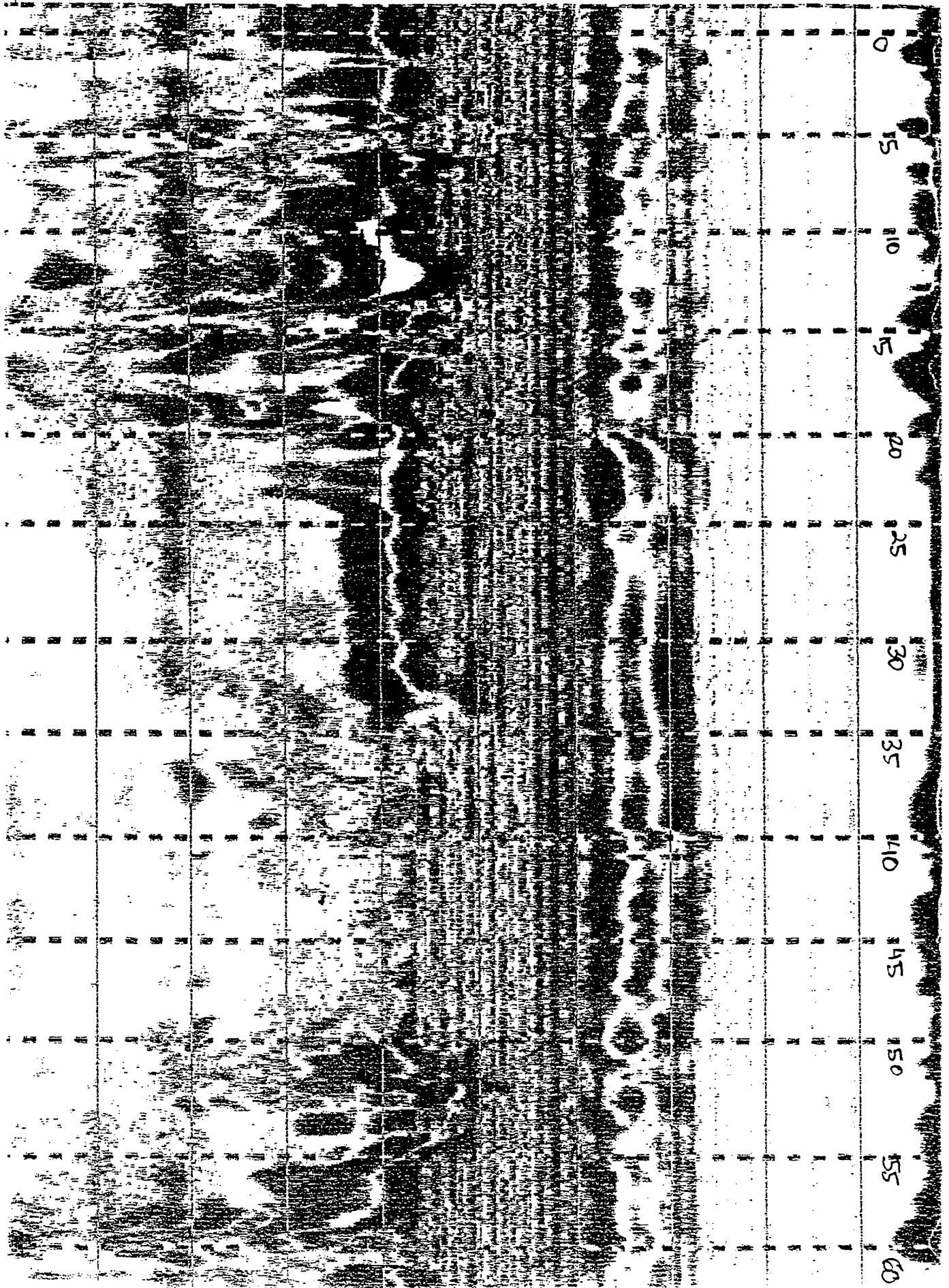
45

50

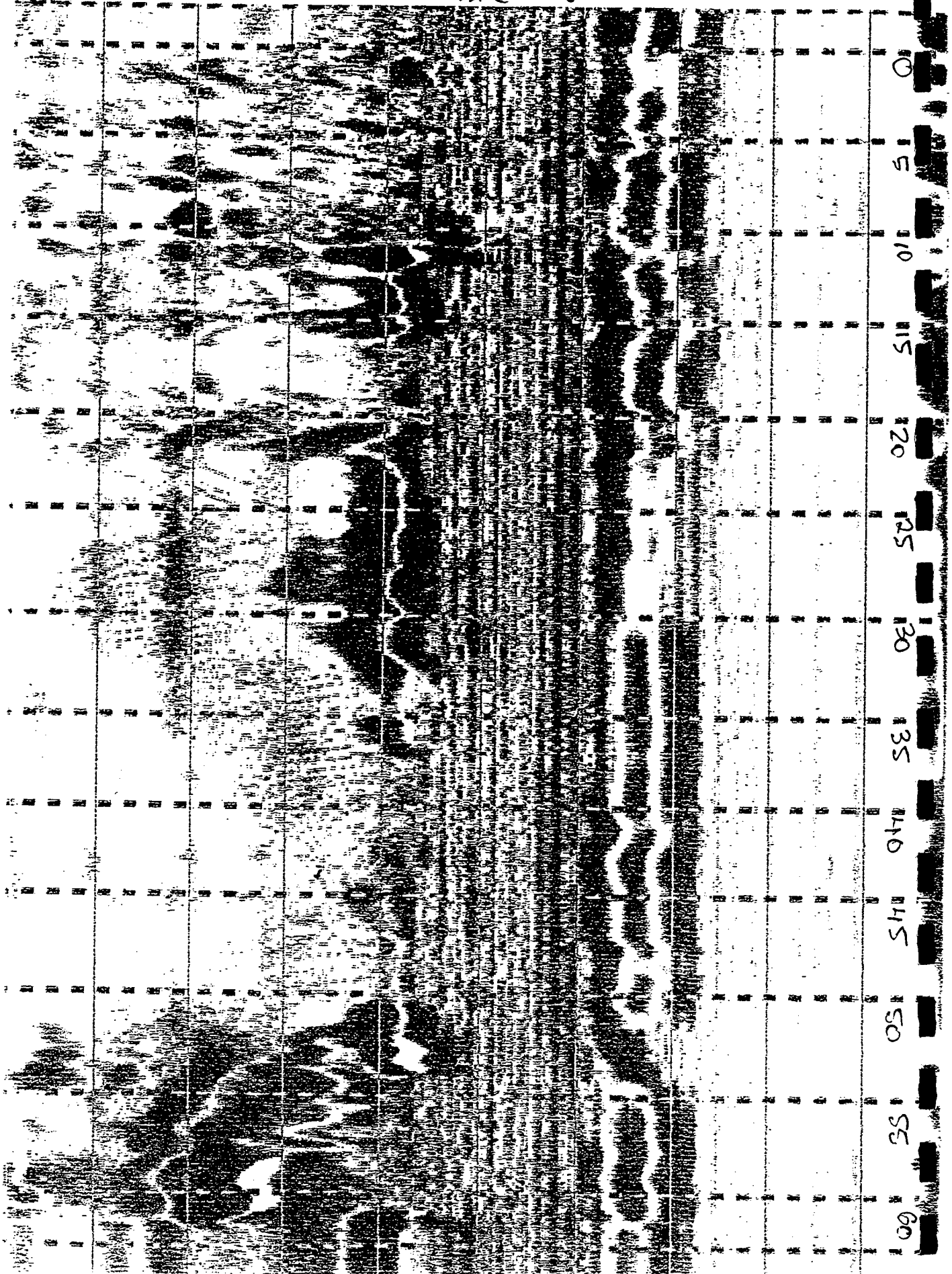
55

60

Horizontal Traverse 10

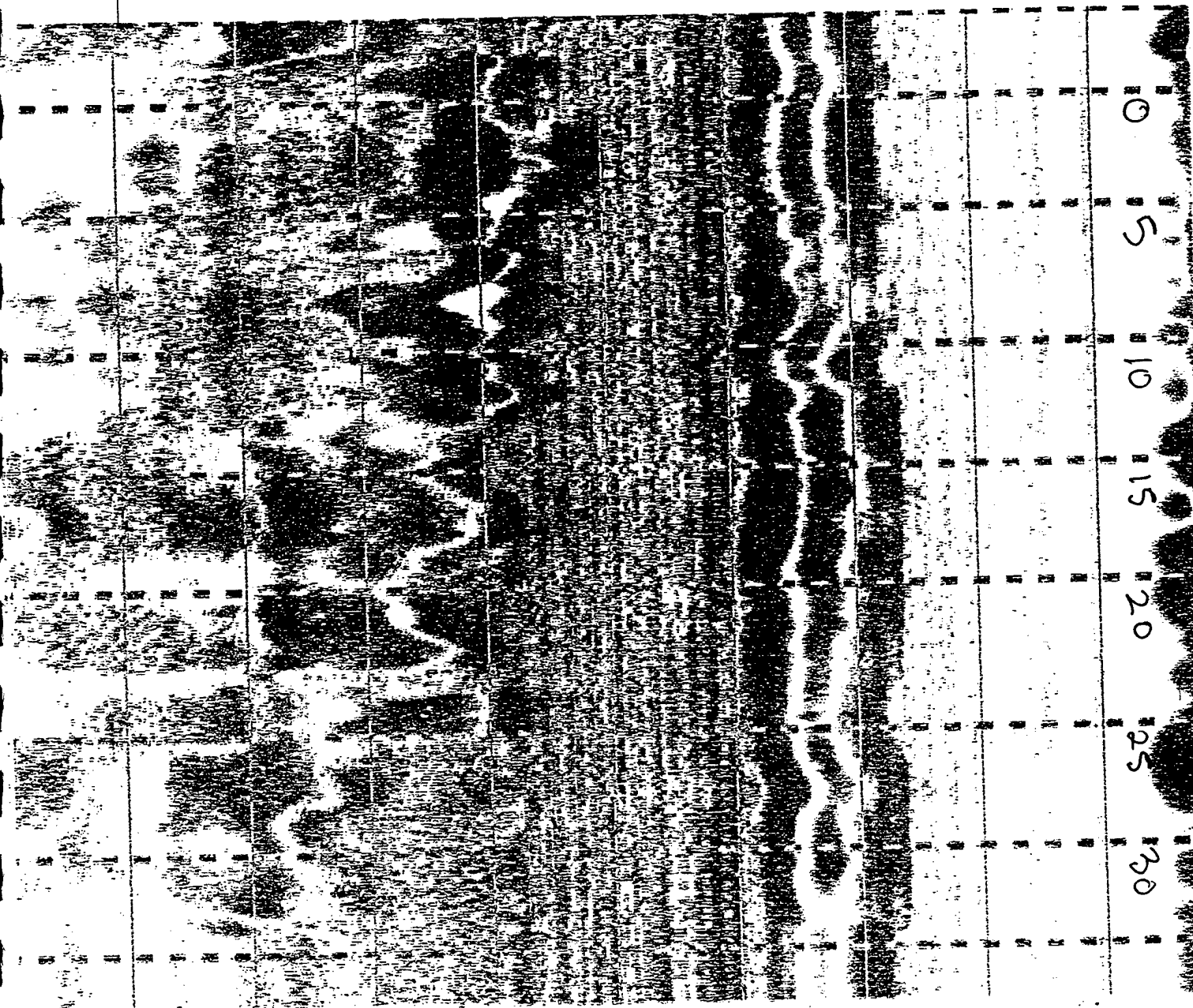


Horizontal Traverse 12

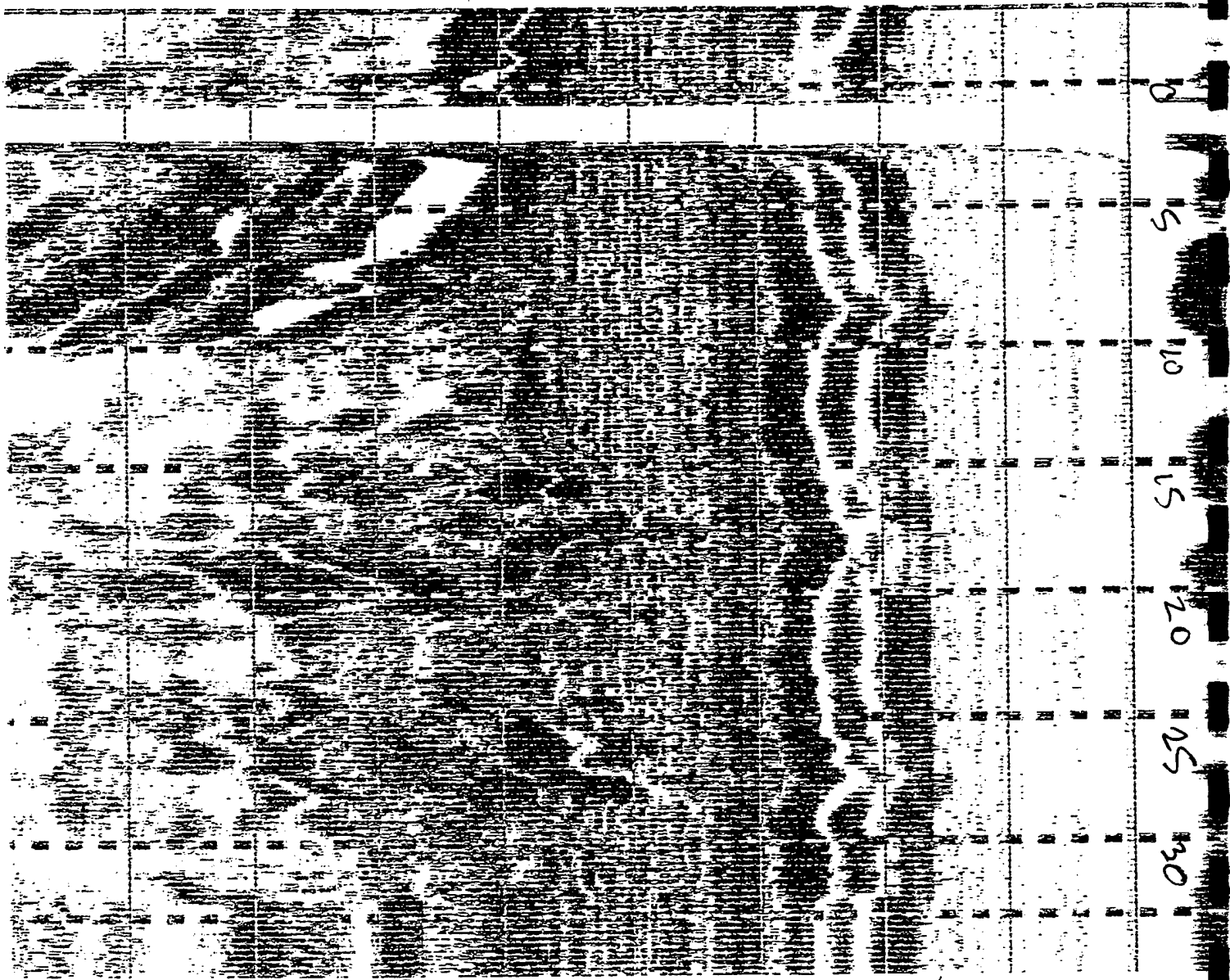


AOC-A @ Jefferson Barracks  
R=168 ns, HPF=20  
LPF=100

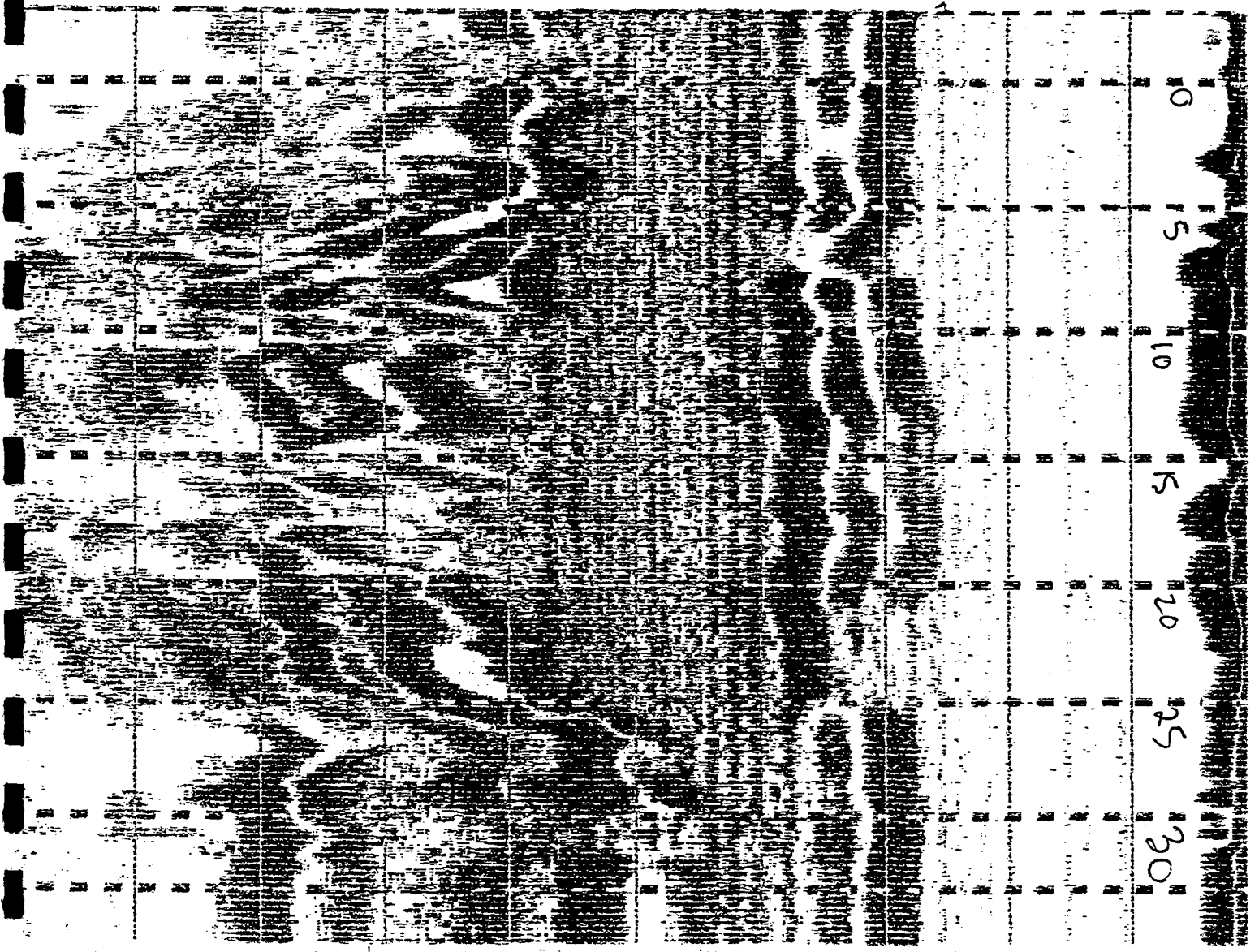
Vertical Traverse 0



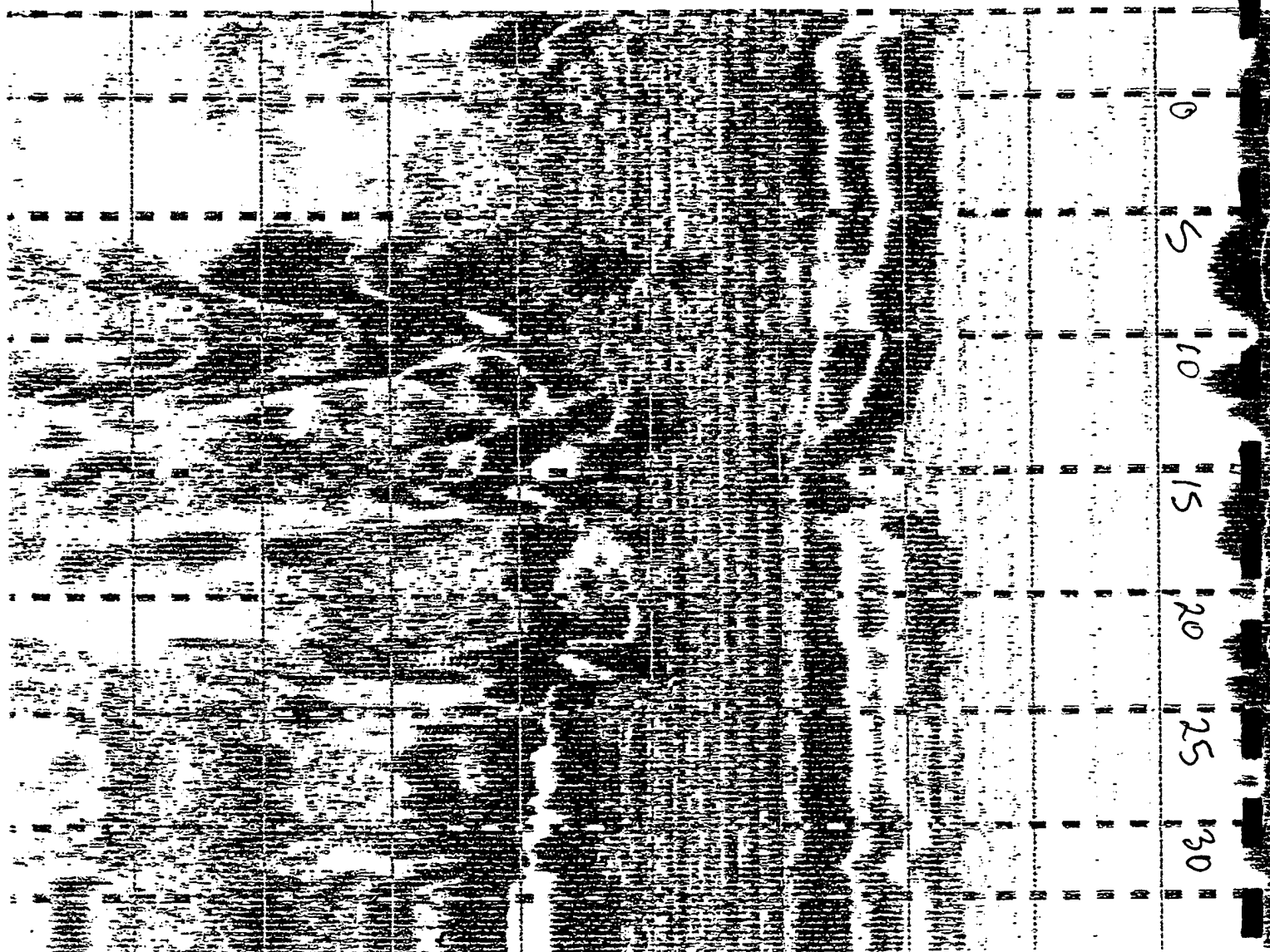
# Vertical Traverse 2



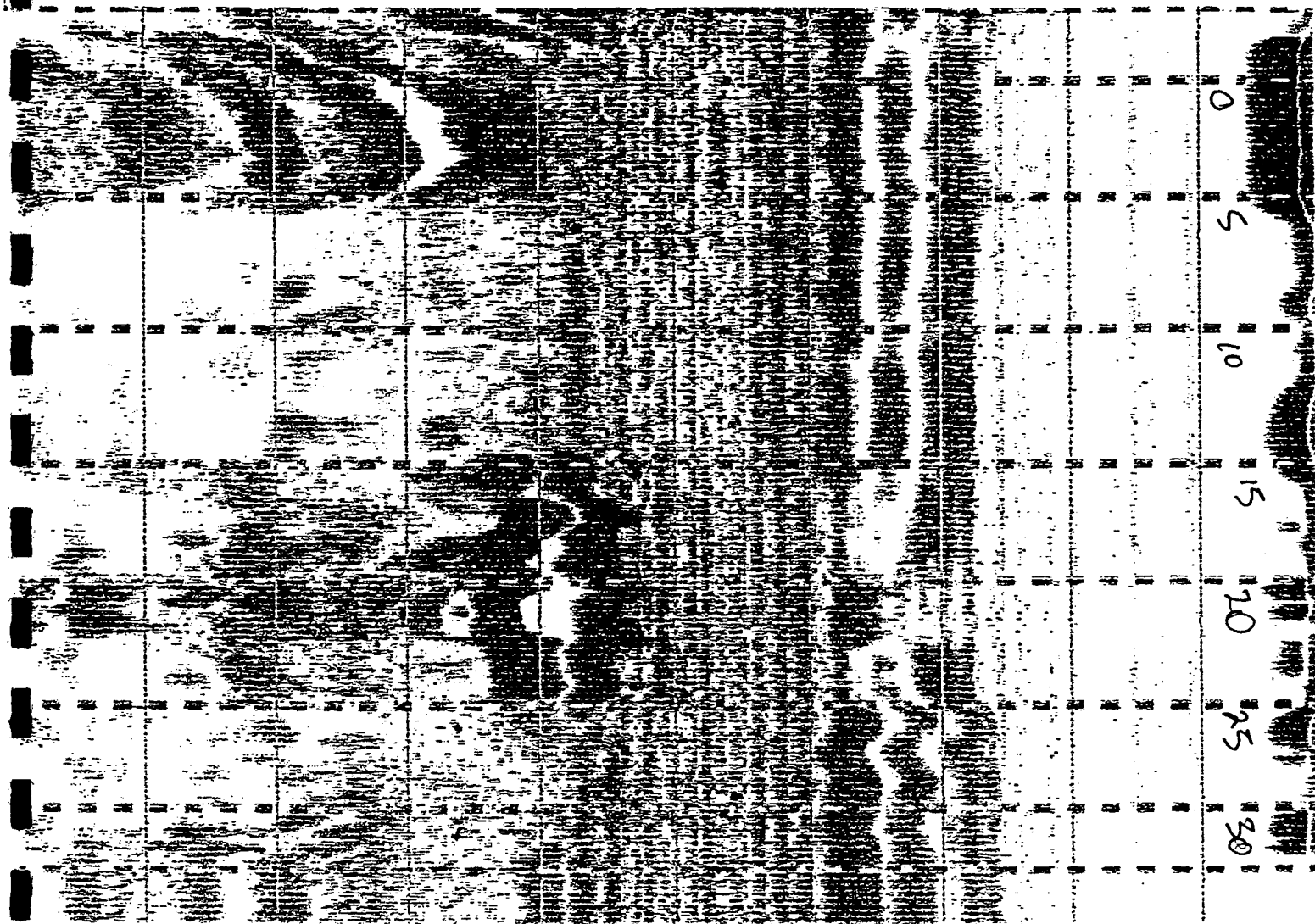
# Vertical Traverse 4



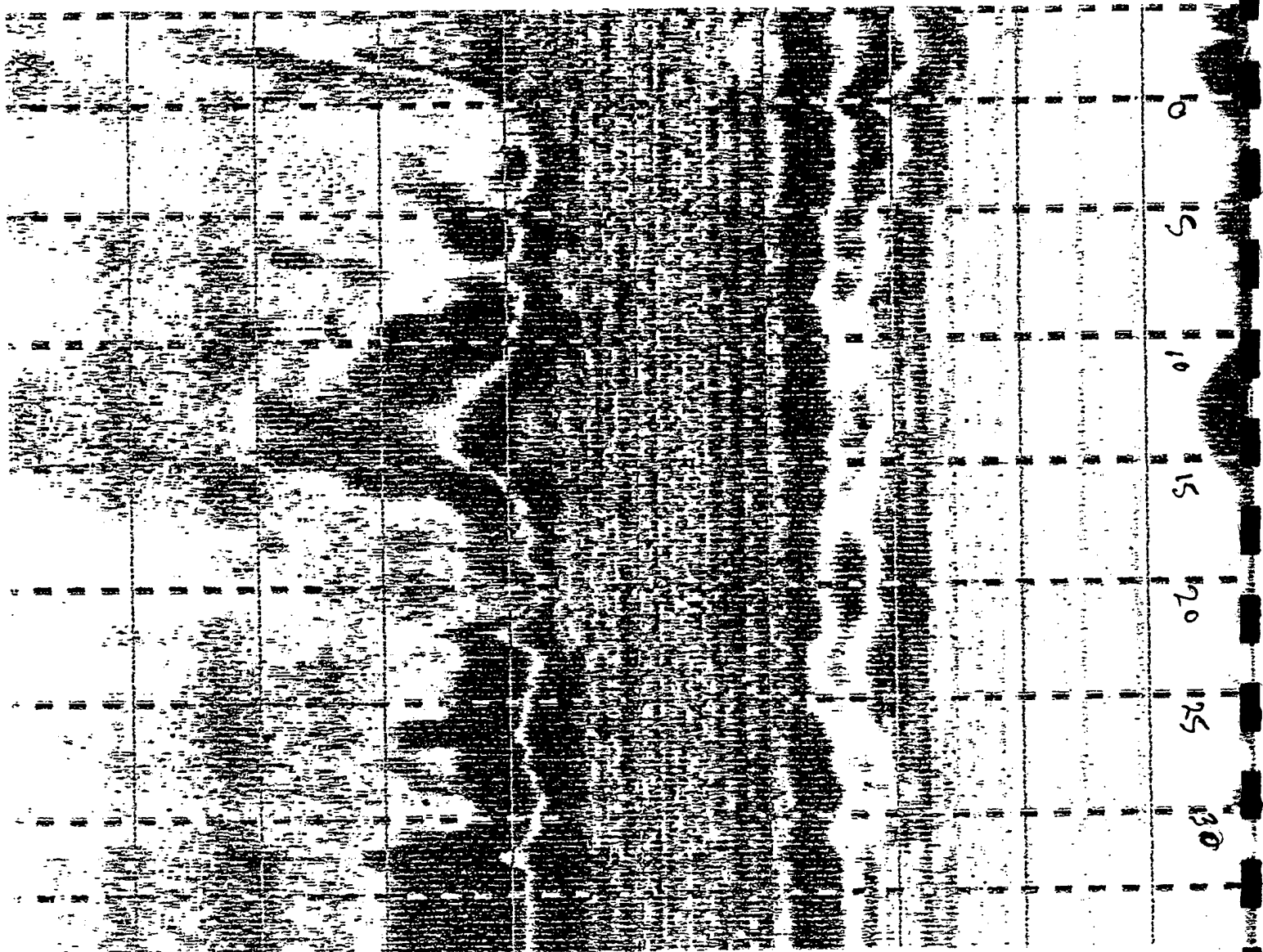
# Vertical Traverse 6



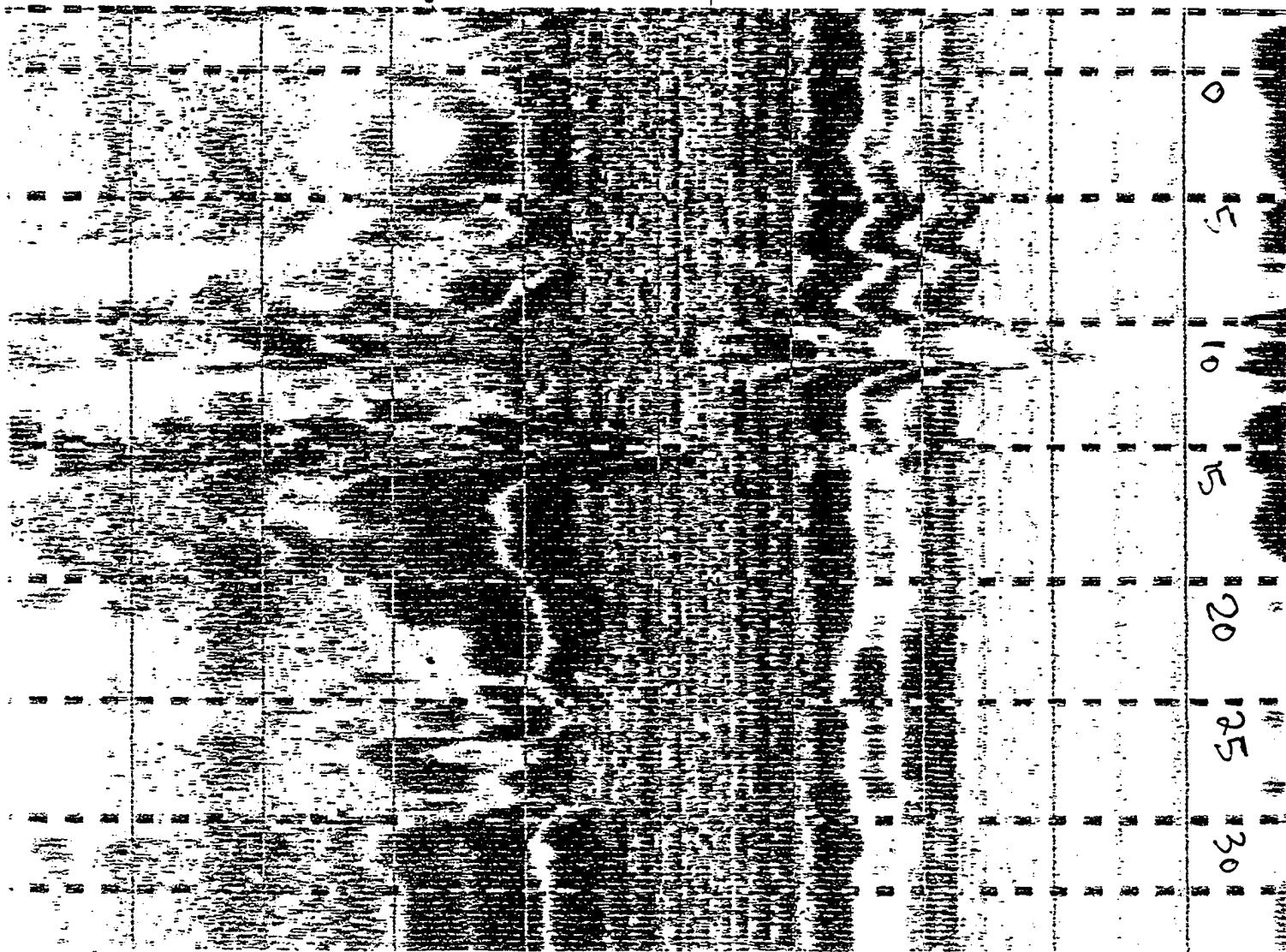
Vertical Traverse 8



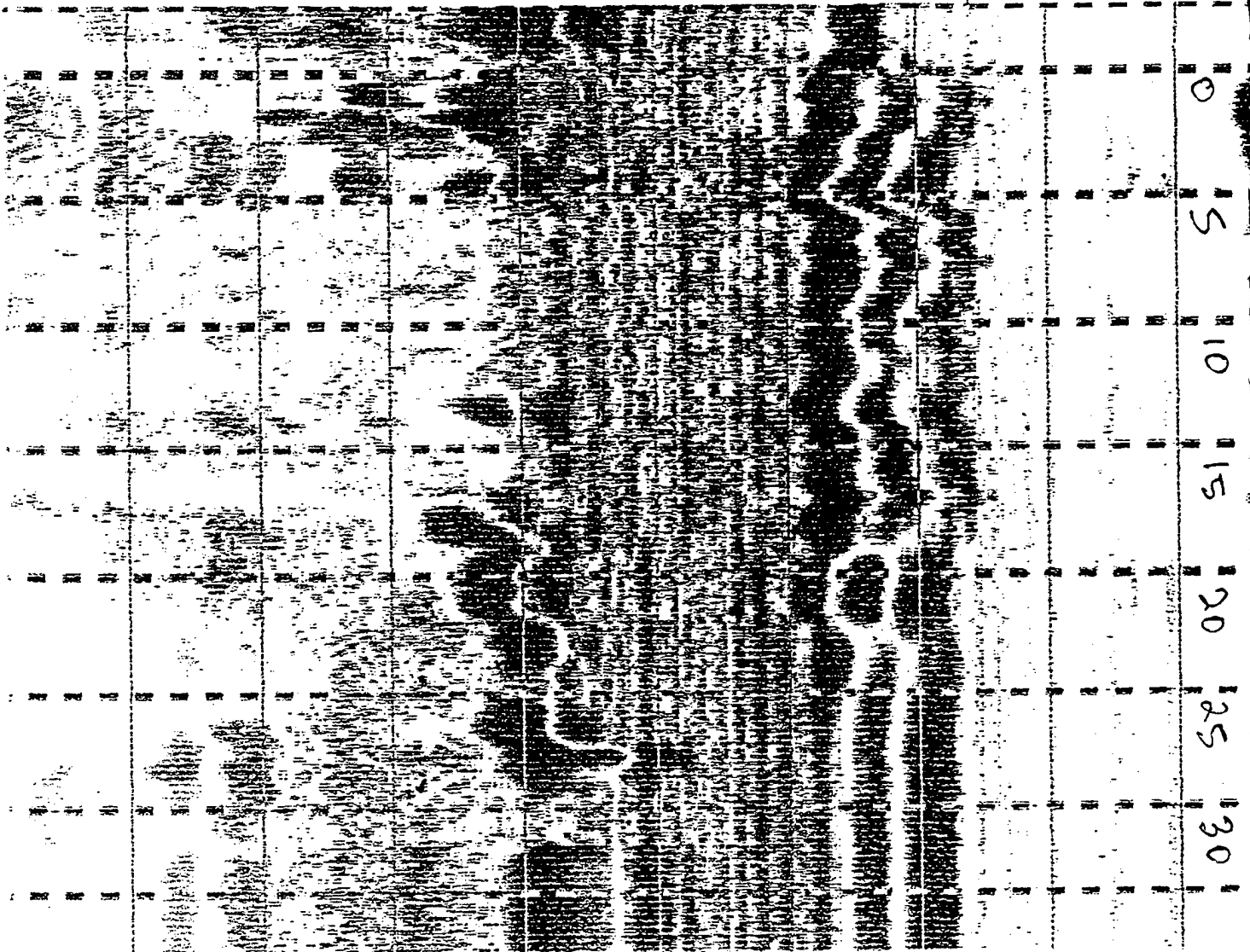
# Vertical Travels 10



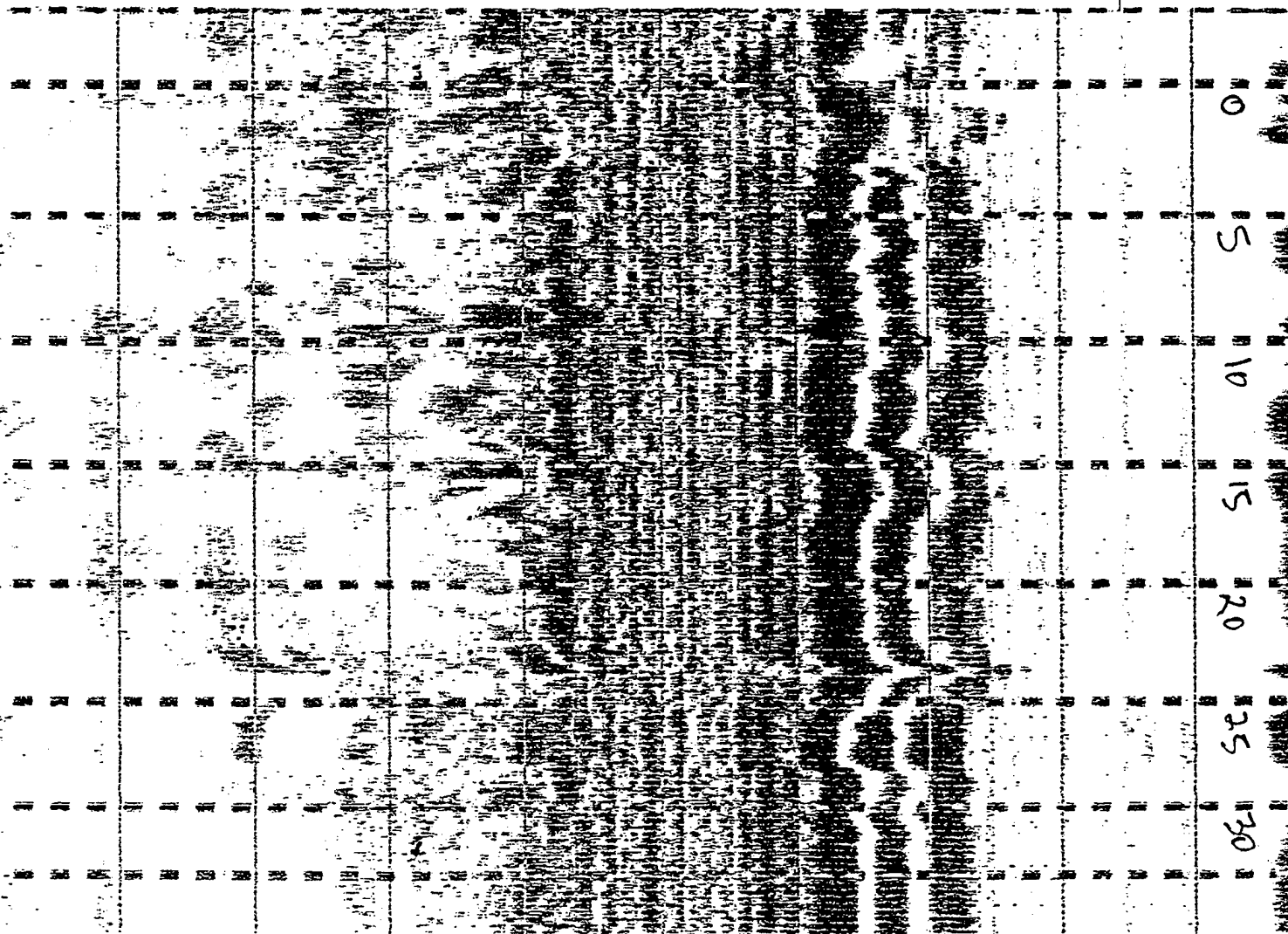
Vertical Traverse 12



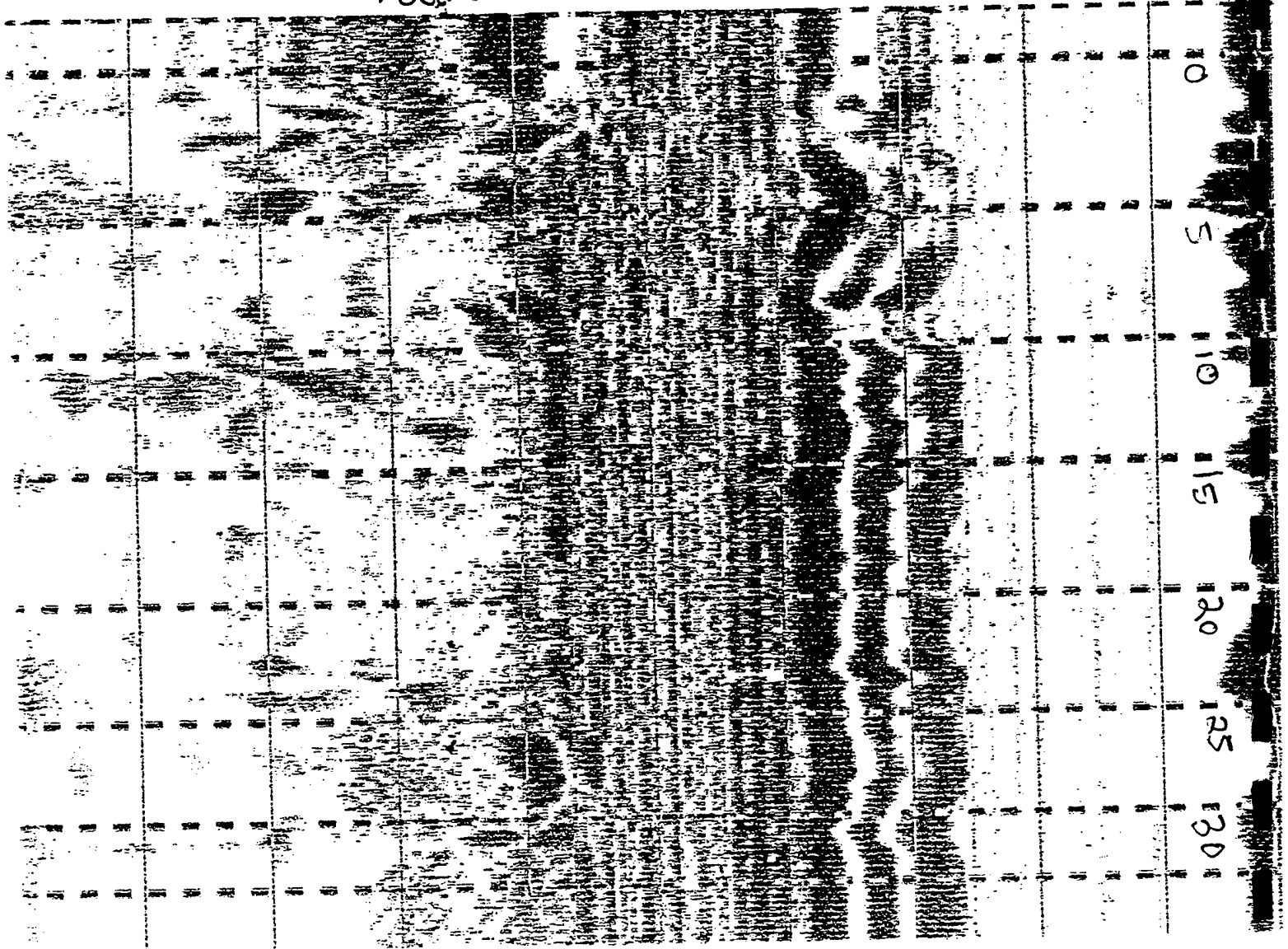
Vertical Traverse 14



# Vertical Traverse 16

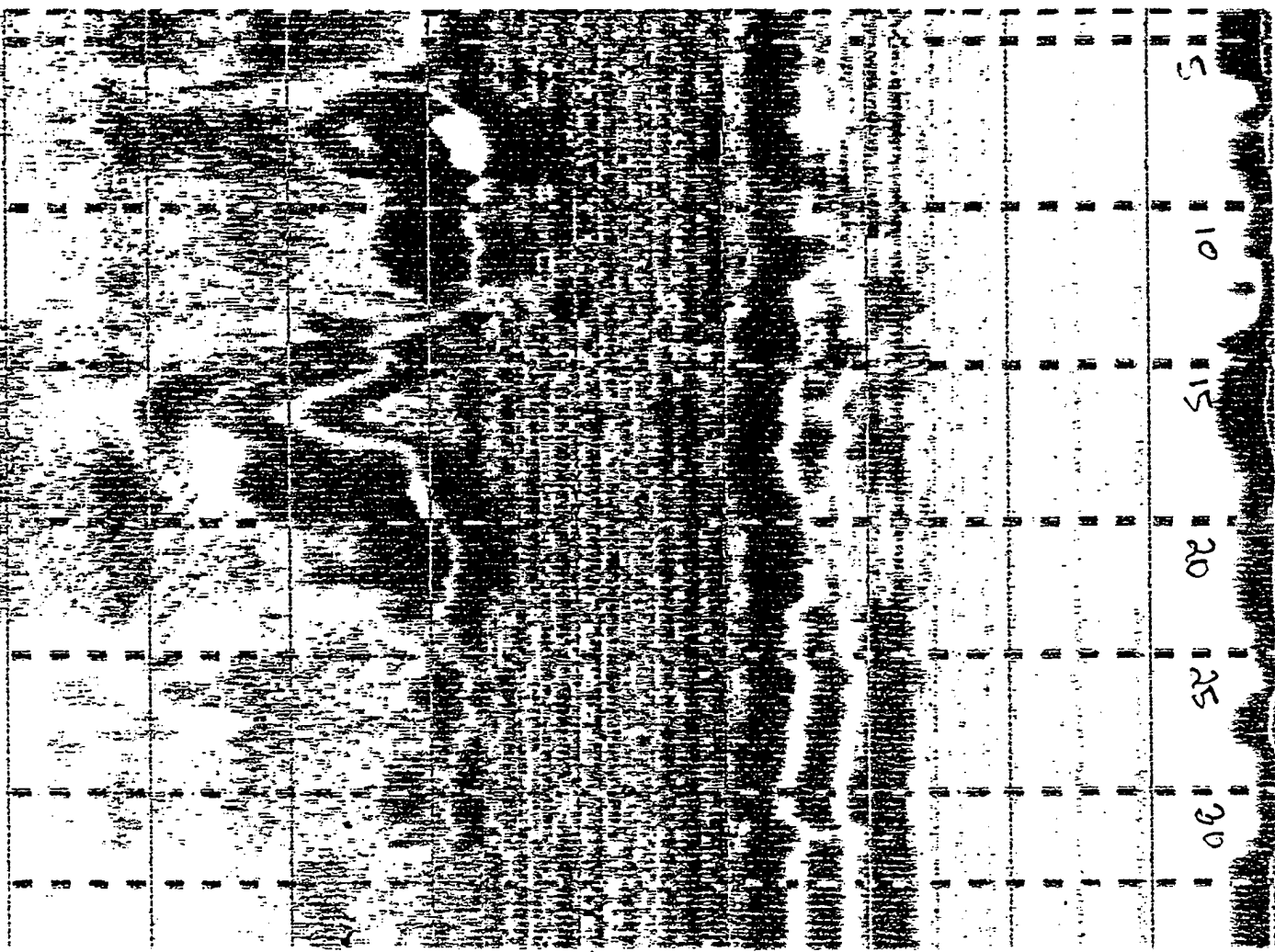


# Vertical Traverse 18

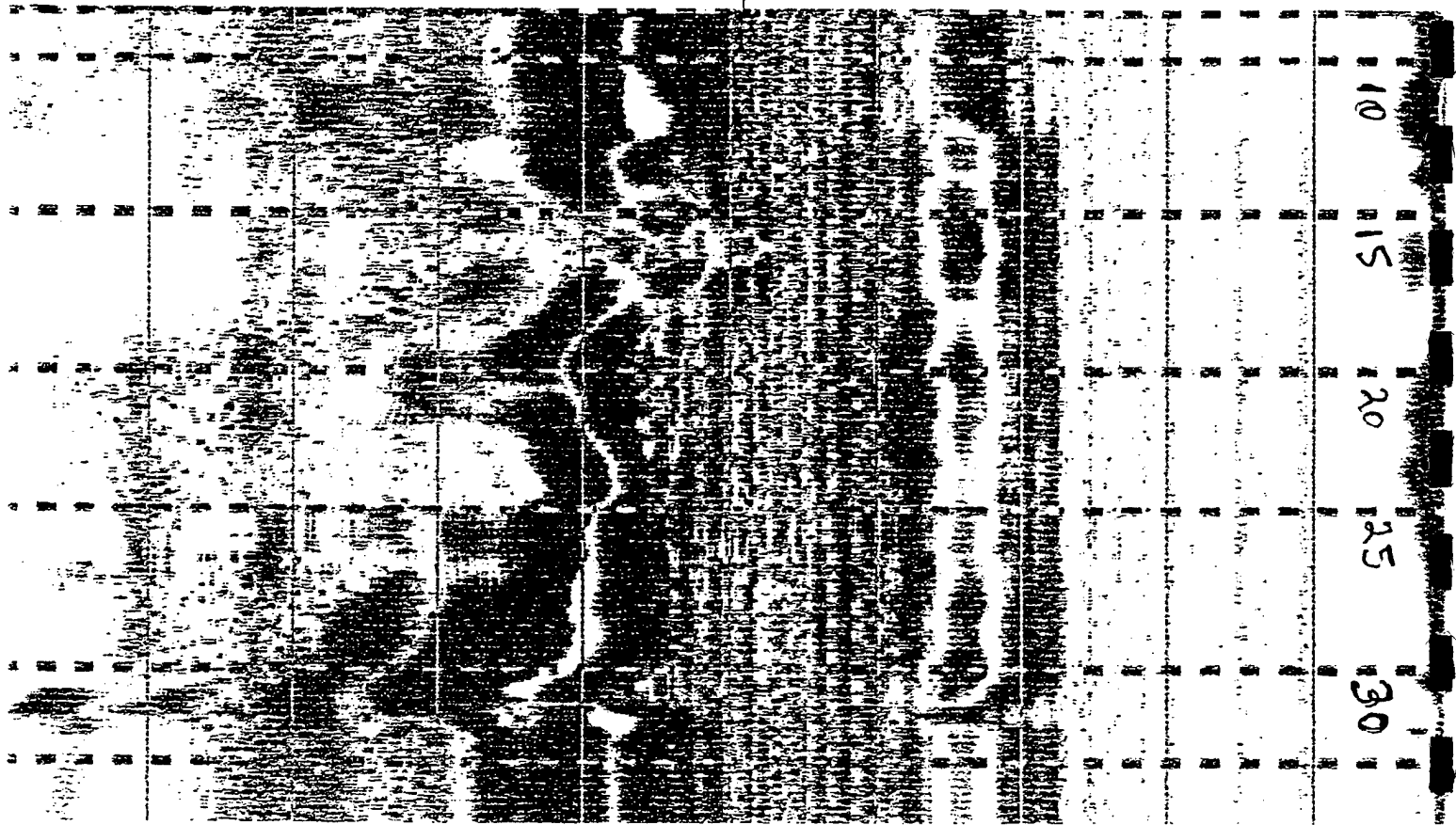


Vertical Traverse 20

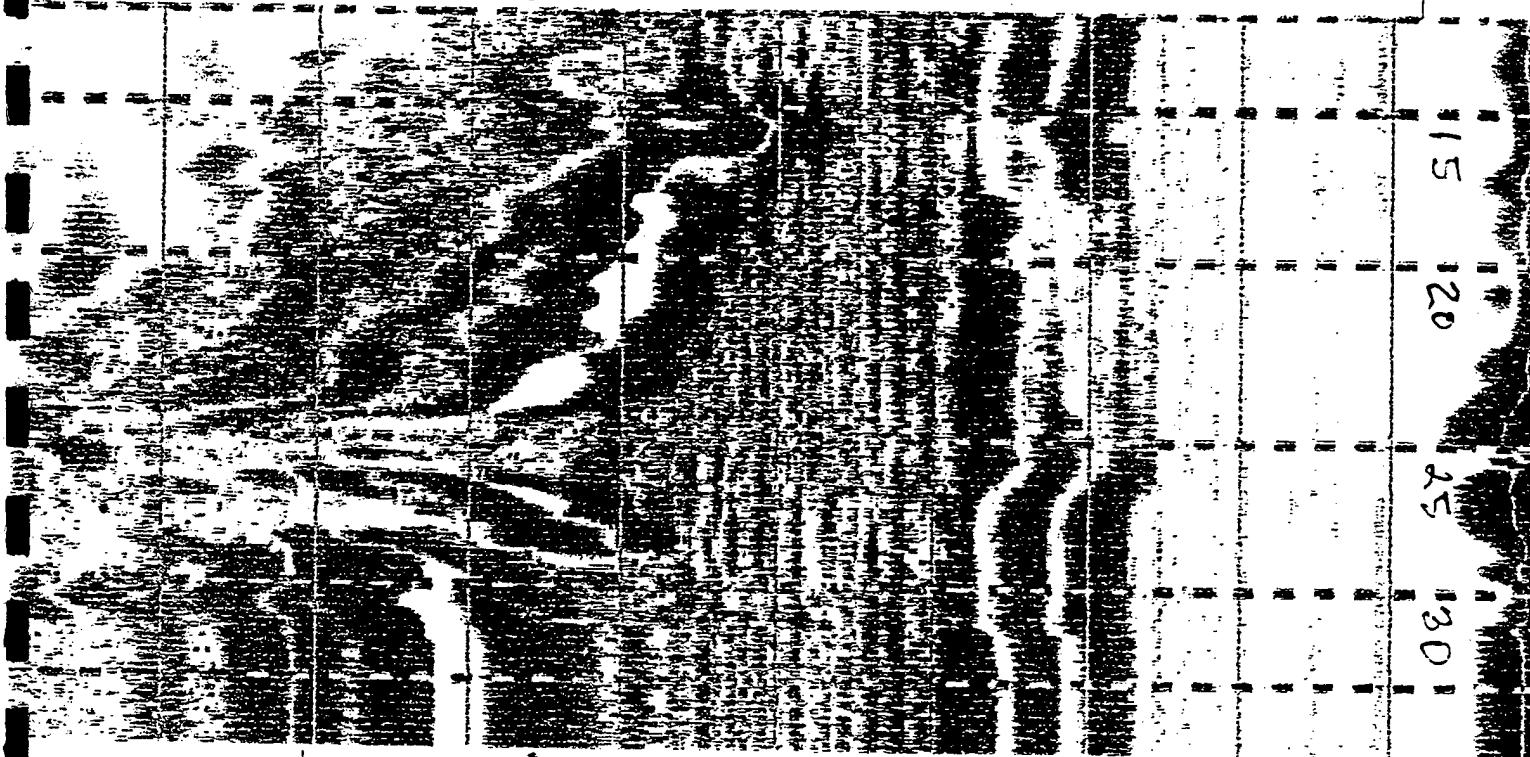
5 10 15 20 25 30



Vertical Traverse 22



Vertical Traverse 24



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# MAGNETOMETER SURVEY LOG

DATE: 12/6/94  
 STATION: Jefferson Barracks  
 AOC/SITE: AOC-A

OPERATORS: MLA, DG

## GRID DESCRIPTION

Shape: Rectangular 30' wide by 60' long  
 Orientation: Longwise E-W  
 Spacing: 2.5'

Sampling Lines:  
 Vertical: North-South (line to line) Horizontal: East-West (sample)  
 Compass Orientation: N-S

Site Ground Cover: grass, 1 road runs through  
 Suspected Target: small pipe  
 Typical Mag Field Value: \_\_\_\_\_ gauss  
 Surface Interferences on Sampling Lines: Building @ west end,  
railroad junk in on slope to ditch

## EQUIPMENT

System: Geometrics G-856  
 Vertical Sensor Separation: 30 inches

## SURVEY SETUP

All Ferrous Metal Off Operators: Yes  
 Test Signal Values: 54,700 gauss  
 Duplicate Repeatability: ~1 gauss  
 Signal Strength: 6.4

Line Number Code: .2 for 2nd AOC .... 2XX start 200 to 212  
 Grid Origin Location: 0,0  
 Julian Date: 340  
 Data Acquired: ✓  
 Unidirectional: ✓ Alternating: \_\_\_\_\_  
 No. Points/Line: 25  
 Total Points: 325 (13 x 25)

# MAGNETOMETER SURVEY LOG

DATE: 12/6/94  
 STATION: Jeff Broucke  
 AOC/SITE: AOC-A

OPERATORS: MLA, DG

START 1825

FINISH 1535

## DATA ACQUISITION RECORD

Line Number	Line Code	Start Point	Finish Point	Ghost Points
0	200	0	24	@ 21, 22, 23, 24
1	201	0	24	@ 21, 22, 23, 24
2	202	0	24	@ 22, 23, 24
3	203	0	24	@ 23, 24
4	204	0	24	-
5	205	0	24	-
6	206	0	24	-
7	207	0	24	-
8	208	0	24	-
9	209	0	24	-
10	210	0	24	-
11	211	0	24	-
12	212	0	24	-

50

49 ✓

99 ✓

149 ✓

199 ✓

249 ✓

299 ✓

349 ✓

399 ✓

449 ✓

499 ✓

549 ✓

599 ✓

649 ✓

DATA TRANSFER:

COMPUTER FILE NAME: Jeff-Broucke

## MAGNETOMETER DATA FOR AOC A AT JEFFERSON BARRACKS ANG5

FILE: JBAOC\_A.WQ1

DATE: 12/06/94

LINE	DATE	CLOCK	STAT#	X	Y	TOP	BOTTOM	GRAD
200	340	132629	0	0	0	54218.7	53284	-373.88
200	340	132712	2	2.5	0	54091.8	53422.6	-267.68
200	340	132731	4	5	0	54181.7	53795.8	-154.359
200	340	132758	6	7.5	0	54346.6	54121.7	-89.961
200	340	132817	8	10	0	54496.5	54372	-49.8
200	340	132838	10	12.5	0	54602.5	54525.7	-30.72
200	340	132858	12	15	0	54696.1	54653.9	-16.88
200	340	132921	14	17.5	0	54749.6	54723.8	-10.32
200	340	132942	16	20	0	54802.7	54761.9	-16.319
200	340	133004	18	22.5	0	54855.5	54815.3	-16.08
200	340	133021	20	25	0	54902.7	54884.9	-7.119
200	340	133046	22	27.5	0	54940.2	54945.6	2.161
200	340	133108	24	30	0	54950.6	54956	2.159
200	340	133126	26	32.5	0	54929.1	54915	-5.641
200	340	133147	28	35	0	54910.4	54883.5	-10.761
200	340	133207	30	37.5	0	54883.9	54841.4	-17
200	340	133234	32	40	0	54868.5	54806.7	-24.72
200	340	133302	34	42.5	0	54870.6	54795.9	-29.88
200	340	133323	36	45	0	54903.9	54855.9	-19.2
200	340	133347	38	47.5	0	54964.1	55023.5	23.759
200	340	133418	40	50	0	55047.9	55164	46.439
200	340	133521	42	52.5	0	55042.9	55157.7	45.919
200	340	133531	44	55	0	55046.1	55162	46.359
200	340	133541	46	57.5	0	55045.5	55159.9	45.761
200	340	133552	48	60	0	55044.1	55163	47.559
201	340	133658	50	0	2.5	53280	51843.9	-574.439
201	340	133716	52	2.5	2.5	53468.7	52506.1	-385.039
201	340	133736	54	5	2.5	53558.6	53263.2	-118.161
201	340	133755	56	7.5	2.5	54014	53793.9	-88.039
201	340	133813	58	10	2.5	54303.3	54189.8	-45.4
201	340	133832	60	12.5	2.5	54505.5	54444.8	-24.28
201	340	133849	62	15	2.5	54630.7	54600.5	-12.08
201	340	133905	64	17.5	2.5	54699.3	54678.3	-8.4
201	340	133921	66	20	2.5	54768.9	54728.3	-16.241
201	340	133939	68	22.5	2.5	54815.4	54771.4	-17.6
201	340	133956	70	25	2.5	54860	54829.5	-12.2
201	340	134013	72	27.5	2.5	54891.6	54872.3	-7.72
201	340	134032	74	30	2.5	54903.6	54886.9	-6.68
201	340	134051	76	32.5	2.5	54898.1	54872.5	-10.241
201	340	134107	78	35	2.5	54881.5	54846.7	-13.92
201	340	134135	80	37.5	2.5	54866	54815.4	-20.239
201	340	134153	82	40	2.5	54853.8	54776.1	-31.08
201	340	134235	84	42.5	2.5	54860.8	54766	-37.92
201	340	134305	86	45	2.5	54902.4	54847.4	-22
201	340	134336	88	47.5	2.5	54971.7	55046.3	29.841
201	340	134412	90	50	2.5	55054.9	55174.2	47.719
201	340	134442	92	52.5	2.5	55057.2	55182.5	50.12
201	340	134452	94	55	2.5	55056	55181.4	50.161
201	340	134502	96	57.5	2.5	55056.2	55177.9	48.681
201	340	134513	98	60	2.5	55055.8	55175.7	47.959
202	340	134638	100	0	5	52087.3	52041.5	-18.32
202	340	134655	102	2.5	5	52179.7	50913.9	-506.319
202	340	134712	104	5	5	53003.4	52494.6	-203.52

202	340	134734	106	7.5	5	53706.2	53470.1	-94.439
202	340	134751	108	10	5	54094.5	53997.5	-38.8
202	340	134841	110	12.5	5	54339.3	54278.8	-24.2
202	340	134900	112	15	5	54523.6	54491.9	-12.68
202	340	134928	114	17.5	5	54632	54606.7	-10.12
202	340	134948	116	20	5	54711.6	54675.7	-14.361
202	340	135005	118	22.5	5	54767.7	54733.7	-13.6
202	340	135021	120	25	5	54822.9	54810.1	-5.12
202	340	135037	122	27.5	5	54864.7	54867.3	1.041
202	340	135054	124	30	5	54881.3	54881.2	-0.041
202	340	135111	126	32.5	5	54880	54866	-5.6
202	340	135130	128	35	5	54862.7	54830.7	-12.8
202	340	135147	130	37.5	5	54844.7	54794.5	-20.08
202	340	135205	132	40	5	54831	54751.7	-31.72
202	340	135227	134	42.5	5	54837.2	54735.5	-40.68
202	340	135253	136	45	5	54878.4	54811.2	-26.881
202	340	135317	138	47.5	5	54926.5	54938.8	4.92
202	340	135342	140	50	5	54980.3	55046.4	26.441
202	340	135413	142	52.5	5	55000.6	55037.8	14.88
202	340	135439	144	55	5	54998	55029.9	12.761
202	340	135448	146	57.5	5	54998.3	55030.2	12.759
202	340	135458	148	60	5	54997.3	55029.3	12.8
203	340	135616	150	0	7.5	52119.6	52157.3	15.08
203	340	135635	152	2.5	7.5	52162.6	52066.8	-38.32
203	340	135656	154	5	7.5	52184.6	51949	-94.241
203	340	135717	156	7.5	7.5	53255.6	53063.5	-76.841
203	340	135752	158	10	7.5	53869.1	53753.6	-46.2
203	340	135813	160	12.5	7.5	54240.5	54193	-19
203	340	135832	162	15	7.5	54436.8	54399.5	-14.92
203	340	135851	164	17.5	7.5	54582.7	54546.1	-14.639
203	340	135908	166	20	7.5	54662.2	54631.6	-12.239
203	340	135928	168	22.5	7.5	54746.2	54724	-8.88
203	340	135948	170	25	7.5	54802.7	54805.5	1.12
203	340	140008	172	27.5	7.5	54846.2	54874.7	11.4
203	340	140028	174	30	7.5	54865.5	54891.9	10.561
203	340	140046	176	32.5	7.5	54864	54868.1	1.641
203	340	140105	178	35	7.5	54847.8	54825.8	-8.8
203	340	140127	180	37.5	7.5	54828.6	54780.3	-19.32
203	340	140146	182	40	7.5	54820.6	54755	-26.241
203	340	140202	184	42.5	7.5	54830.9	54750.1	-32.32
203	340	140225	186	45	7.5	54872.8	54814.9	-23.159
203	340	140249	188	47.5	7.5	54904.9	54883.5	-8.561
203	340	140313	190	50	7.5	54949.5	54955.8	2.52
203	340	140336	192	52.5	7.5	54969.8	54970.9	0.441
203	340	140418	194	55	7.5	54972.5	54957.4	-6.039
203	340	140445	196	57.5	7.5	54972.5	54956.9	-6.239
203	340	140455	198	60	7.5	54973.3	54957	-6.52
204	340	140605	200	0	10	51961.9	52186	89.639
204	340	140624	202	2.5	10	23354	51978.1	11449.64
204	340	140714	204	5	10	51856.5	51591.3	-106.08
204	340	140736	206	7.5	10	53080.3	52921.9	-63.359
204	340	140754	208	10	10	53698.1	53624.8	-29.32
204	340	140811	210	12.5	10	54117.1	54081.7	-14.161
204	340	140829	212	15	10	54360.1	54335.5	-9.841
204	340	140848	214	17.5	10	54545.8	54514.4	-12.559
204	340	140920	216	20	10	54642.1	54615.1	-10.8
204	340	140937	218	22.5	10	54710.9	54695.8	-6.041
204	340	140953	220	25	10	54763.4	54762	-0.561
204	340	141009	222	27.5	10	54823	54844.3	8.52

204	340	141027	224	30	10	54848.4	54883.8	14.159
204	340	141046	226	32.5	10	54849.4	54878.2	11.519
204	340	141107	228	35	10	54836.5	54828.4	-3.239
204	340	141128	230	37.5	10	54820.5	54775.3	-18.08
204	340	141144	232	40	10	54814.2	54753.8	-24.159
204	340	141207	234	42.5	10	54829	54767.9	-24.439
204	340	141226	236	45	10	54856.4	54811.9	-17.8
204	340	141250	238	47.5	10	54902.5	54887.4	-6.039
204	340	141312	240	50	10	54937.3	54938.1	0.32
204	340	141336	242	52.5	10	54961.2	54975.3	5.641
204	340	141407	244	55	10	54968.5	54972.4	1.561
204	340	141427	246	57.5	10	54961.2	54945.8	-6.159
204	340	141459	248	60	10	54949.4	54905.9	-17.4
205	340	141835	250	0	12.5	52178.9	52084.1	-37.92
205	340	141857	252	2.5	12.5	26023.9	52183.8	10463.96
205	340	141925	254	5	12.5	52128.2	52019.6	-43.439
205	340	141946	256	7.5	12.5	52869.1	52826.9	-16.88
205	340	142006	258	10	12.5	53596.4	53552.7	-17.481
205	340	142024	260	12.5	12.5	54008.2	53988.5	-7.88
205	340	142042	262	15	12.5	54256.8	54243.1	-5.48
205	340	142106	264	17.5	12.5	54479.6	54461.5	-7.241
205	340	142125	266	20	12.5	54600.5	54586.8	-5.48
205	340	142141	268	22.5	12.5	54677.7	54658.9	-7.519
205	340	142222	270	25	12.5	54735.5	54709.2	-10.52
205	340	142241	272	27.5	12.5	54772.8	54752.6	-8.08
205	340	142304	274	30	12.5	54806.7	54823.6	6.761
205	340	142334	276	32.5	12.5	54818.3	54846.9	11.441
205	340	142354	278	35	12.5	54809	54801.1	-3.159
205	340	142420	280	37.5	12.5	54798.4	54744.4	-21.6
205	340	142438	282	40	12.5	54796.1	54730.8	-26.12
205	340	142508	284	42.5	12.5	54810.6	54748.4	-24.88
205	340	142527	286	45	12.5	54842.5	54805.4	-14.839
205	340	142544	288	47.5	12.5	54890.1	54887.1	-1.2
205	340	142607	290	50	12.5	54928.1	54955.9	11.12
205	340	142632	292	52.5	12.5	54958.7	55014.9	22.481
205	340	142658	294	55	12.5	54969.7	55016.1	18.561
205	340	142717	296	57.5	12.5	54956.4	54964.6	3.28
205	340	142747	298	60	12.5	54942.7	54919.9	-9.119
206	340	143344	300	0	15	52076.2	51978.2	-39.2
206	340	143407	302	2.5	15	52188	52139.3	-19.48
206	340	143432	304	5	15	51428.9	51892.6	185.48
206	340	143452	306	7.5	15	52927.9	53023.5	38.239
206	340	143513	308	10	15	53620.4	53630.2	3.919
206	340	143535	310	12.5	15	53977.5	53973	-1.8
206	340	143556	312	15	15	54244.9	54235.8	-3.641
206	340	143616	314	17.5	15	54463.9	54467.8	1.559
206	340	143633	316	20	15	54598.1	54594	-1.641
206	340	143657	318	22.5	15	54663.5	54645.7	-7.12
206	340	143722	320	25	15	54703.3	54665.7	-15.041
206	340	143744	322	27.5	15	54739	54683.7	-22.12
206	340	143803	324	30	15	54771.3	54738.4	-13.159
206	340	143834	326	32.5	15	54782.6	54757.2	-10.161
206	340	143856	328	35	15	54784.6	54748.4	-14.48
206	340	143916	330	37.5	15	54785.8	54732.7	-21.241
206	340	143939	332	40	15	54793.4	54732.3	-24.441
206	340	144002	334	42.5	15	54809	54751.6	-22.959
206	340	144024	336	45	15	54837	54800.9	-14.439
206	340	144044	338	47.5	15	54881.6	54880.5	-0.441
206	340	144103	340	50	15	54916.2	54953.9	15.081

206	340	144126	342	52.5	15	54955.1	55045.1	36
206	340	144150	344	55	15	54968.6	55050.2	32.639
206	340	144211	346	57.5	15	54956.3	54986.2	11.959
206	340	144246	348	60	15	54941.1	54927.2	-5.561
207	340	144422	350	0	17.5	43349.2	52062.9	3485.481
207	340	144440	352	2.5	17.5	52100.8	52210.2	43.759
207	340	144457	354	5	17.5	52122.5	52518.8	158.52
207	340	144514	356	7.5	17.5	53032.7	53217.6	73.961
207	340	144533	358	10	17.5	53688.1	53734.3	18.48
207	340	144551	360	12.5	17.5	54053.2	54058.6	2.161
207	340	144613	362	15	17.5	54297	54294	-1.2
207	340	144630	364	17.5	17.5	54491.2	54509.9	7.481
207	340	144645	366	20	17.5	54600.6	54614.8	5.68
207	340	144701	368	22.5	17.5	54661.8	54652.7	-3.641
207	340	144717	370	25	17.5	54695.3	54657.2	-15.241
207	340	144733	372	27.5	17.5	54717.6	54653.7	-25.561
207	340	144750	374	30	17.5	54741.4	54666.7	-29.881
207	340	144807	376	32.5	17.5	54760.2	54696.9	-25.319
207	340	144830	378	35	17.5	54767	54709.9	-22.839
207	340	144850	380	37.5	17.5	54776.3	54727.1	-19.68
207	340	144909	382	40	17.5	54788.9	54739.7	-19.681
207	340	144928	384	42.5	17.5	54801.1	54751.8	-19.72
207	340	144945	386	45	17.5	54832.5	54797.4	-14.039
207	340	145004	388	47.5	17.5	54863.5	54852.2	-4.52
207	340	145024	390	50	17.5	54885.7	54902.2	6.6
207	340	145044	392	52.5	17.5	54918.6	54983.8	26.08
207	340	145105	394	55	17.5	54940.8	55001.6	24.32
207	340	145122	396	57.5	17.5	54938.9	54948.8	3.959
207	340	145139	398	60	17.5	54937.5	54928	-3.8
208	340	145238	400	0	20	52232.3	52045.9	-74.559
208	340	145254	402	2.5	20	51514	52362	339.2
208	340	145313	404	5	20	52677.4	53022.1	137.88
208	340	145331	406	7.5	20	53207.9	53397.5	75.839
208	340	145347	408	10	20	53776.7	53846.4	27.881
208	340	145406	410	12.5	20	54076.3	54105.6	11.72
208	340	145423	412	15	20	54331.5	54353.8	8.92
208	340	145440	414	17.5	20	54511	54546	14
208	340	145457	416	20	20	54617.7	54647.3	11.841
208	340	145514	418	22.5	20	54680.2	54679.6	-0.239
208	340	145532	420	25	20	54704.4	54681.2	-9.281
208	340	145546	422	27.5	20	54722.4	54673.4	-19.6
208	340	145603	424	30	20	54737.1	54673.3	-25.52
208	340	145621	426	32.5	20	54750.7	54690.1	-24.239
208	340	145638	428	35	20	54765.4	54715.4	-20
208	340	145655	430	37.5	20	54783.1	54743.5	-15.841
208	340	145713	432	40	20	54792.5	54755.5	-14.8
208	340	145731	434	42.5	20	54802.9	54763.9	-15.6
208	340	145749	436	45	20	54815.1	54770.6	-17.8
208	340	145810	438	47.5	20	54830.3	54783	-18.92
208	340	145828	440	50	20	54842.8	54790.4	-20.959
208	340	145847	442	52.5	20	54868.9	54826.4	-17
208	340	145906	444	55	20	54892.6	54855.1	-15
208	340	145923	446	57.5	20	54921.5	54903	-7.4
208	340	145939	448	60	20	54943.9	54952.1	3.28
209	340	150045	450	0	22.5	51229.5	52039.6	324.041
209	340	150103	452	2.5	22.5	52329.9	52791.3	184.559
209	340	150121	454	5	22.5	52969.5	53242.5	109.2
209	340	150138	456	7.5	22.5	53555.9	53663.8	43.159
209	340	150156	458	10	22.5	53948.5	54003.6	22.041

209	340	150215	460	12.5	22.5	54203.9	54230.2	10.519
209	340	150234	462	15	22.5	54392.7	54420.4	11.081
209	340	150251	464	17.5	22.5	54539	54579.8	16.32
209	340	150307	466	20	22.5	54649	54685.3	14.52
209	340	150325	468	22.5	22.5	54699.7	54711.8	4.841
209	340	150343	470	25	22.5	54722.8	54711.2	-4.641
209	340	150400	472	27.5	22.5	54740.7	54705.8	-13.959
209	340	150417	474	30	22.5	54750.4	54708.4	-16.8
209	340	150437	476	32.5	22.5	54764.7	54724	-16.28
209	340	150458	478	35	22.5	54778.5	54744.6	-13.559
209	340	150516	480	37.5	22.5	54792.7	54763.9	-11.519
209	340	150533	482	40	22.5	54803.6	54775.4	-11.28
209	340	150550	484	42.5	22.5	54808.1	54777.6	-12.2
209	340	150609	486	45	22.5	54806.1	54757.8	-19.32
209	340	150627	488	47.5	22.5	54807.8	54738.6	-27.68
209	340	150648	490	50	22.5	54799.3	54658.6	-56.28
209	340	150707	492	52.5	22.5	54805.6	54613	-77.041
209	340	150725	494	55	22.5	54856.1	54745	-44.441
209	340	150744	496	57.5	22.5	54916	54897.9	-7.239
209	340	150801	498	60	22.5	54954.6	54999.2	17.839
210	340	150904	500	0	25	51973.7	52278.2	121.8
210	340	150924	502	2.5	25	52902.9	53131.5	91.439
210	340	150941	504	5	25	53368.1	53505	54.759
210	340	151000	506	7.5	25	53836.3	53892.7	22.559
210	340	151017	508	10	25	54116.1	54137.3	8.48
210	340	151034	510	12.5	25	54307.7	54325.1	6.961
210	340	151050	512	15	25	54478.3	54506.2	11.159
210	340	151108	514	17.5	25	54597.1	54641.2	17.639
210	340	151126	516	20	25	54679.6	54718.7	15.639
210	340	151142	518	22.5	25	54725	54740.4	6.161
210	340	151200	520	25	25	54743.5	54742.9	-0.239
210	340	151216	522	27.5	25	54759.1	54737.3	-8.72
210	340	151232	524	30	25	54771.2	54743.3	-11.159
210	340	151248	526	32.5	25	54783.9	54758.6	-10.12
210	340	151304	528	35	25	54795.9	54773.7	-8.881
210	340	151322	530	37.5	25	54806.9	54787.1	-7.92
210	340	151340	532	40	25	54812.1	54791.1	-8.4
210	340	151359	534	42.5	25	54814.4	54789.7	-9.881
210	340	151416	536	45	25	54810.7	54774.9	-14.319
210	340	151435	538	47.5	25	54795.3	54716.9	-31.359
210	340	151453	540	50	25	54786.5	54655.5	-52.4
210	340	151511	542	52.5	25	54793.2	54613.8	-71.759
210	340	151528	544	55	25	54852	54756.8	-38.08
210	340	151545	546	57.5	25	54926.2	54942	6.32
210	340	151603	548	60	25	54970.7	55051.5	32.32
211	340	151817	550	0	27.5	52866.5	53086.6	88.041
211	340	151833	552	2.5	27.5	53287	53420.5	53.4
211	340	151856	554	5	27.5	53675.3	53742.6	26.92
211	340	151914	556	7.5	27.5	53961.6	53999	14.959
211	340	151933	558	10	27.5	54214	54224	4
211	340	151952	560	12.5	27.5	54377.7	54389.4	4.681
211	340	152023	562	15	27.5	54497.8	54525.4	11.041
211	340	152042	564	17.5	27.5	54634.5	54675.9	16.561
211	340	152100	566	20	27.5	54702.4	54744.2	16.719
211	340	152119	568	22.5	27.5	54739.7	54760	8.12
211	340	152139	570	25	27.5	54757.1	54758.5	0.559
211	340	152157	572	27.5	27.5	54770.8	54756.5	-5.72
211	340	152213	574	30	27.5	54782.9	54764	-7.561
211	340	152232	576	32.5	27.5	54795.9	54777.9	-7.2

211	340	152250	578	35	27.5	54806.9	54792.1	-5.92
211	340	152309	580	37.5	27.5	54815.9	54801.6	-5.72
211	340	152329	582	40	27.5	54821.3	54806.7	-5.841
211	340	152347	584	42.5	27.5	54823.9	54806.7	-6.881
211	340	152408	586	45	27.5	54819.7	54794.9	-9.919
211	340	152432	588	47.5	27.5	54810.6	54763.2	-18.961
211	340	152452	590	50	27.5	54805.1	54721.3	-33.52
211	340	152513	592	52.5	27.5	54825.3	54741.8	-33.4
211	340	152535	594	55	27.5	54871.6	54828.3	-17.32
211	340	152559	596	57.5	27.5	54922	54942.8	8.32
211	340	152627	598	60	27.5	54974.7	55055.3	32.241
212	340	152733	600	0	30	53345.3	53480.6	54.12
212	340	152755	602	2.5	30	53636.8	53674.4	15.041
212	340	152816	604	5	30	53919.3	53913.7	-2.241
212	340	152836	606	7.5	30	54102.4	54084.9	-7
212	340	152858	608	10	30	54307.6	54280.5	-10.841
212	340	152919	610	12.5	30	54431.1	54425.3	-2.32
212	340	152938	612	15	30	54569.1	54588.5	7.759
212	340	152959	614	17.5	30	54658.7	54703.2	17.8
212	340	153016	616	20	30	54718.7	54760.3	16.641
212	340	153034	618	22.5	30	54750	54772.9	9.161
212	340	153056	620	25	30	54768.9	54770.6	0.68
212	340	153117	622	27.5	30	54779.8	54768.4	-4.559
212	340	153136	624	30	30	54790.2	54776.1	-5.639
212	340	153157	626	32.5	30	54803.4	54790.4	-5.2
212	340	153227	628	35	30	54815	54802.7	-4.92
212	340	153244	630	37.5	30	54823.3	54812.7	-4.241
212	340	153301	632	40	30	54831.5	54821	-4.2
212	340	153318	634	42.5	30	54834.3	54823.1	-4.48
212	340	153336	636	45	30	54834.2	54819.6	-5.839
212	340	153355	638	47.5	30	54833	54810.9	-8.839
212	340	153413	640	50	30	54841	54808.6	-12.959
212	340	153435	642	52.5	30	54854.5	54822.3	-12.88
212	340	153452	644	55	30	54894.5	54887.6	-2.759
212	340	153511	646	57.5	30	54929.4	54954.3	9.959
212	340	153532	648	60	30	54969.2	55024.2	22

# GROUND-PENETRATING RADAR SURVEY LOG

DATE: 12/6/94 OPERATORS: MLA, RC, DG  
 STATION: Jefferson Barracks  
 AOC/SITE: AOC - D

## GRID DESCRIPTION

Shape: Square  
 Orientation: N-S  
 Spacing: 5 feet

## GPR Traverse Lines:

Vertical: \_\_\_\_\_ Horizontal: \_\_\_\_\_  
 Compass Direction: N-S Compass Direction: E-W  
 Length: 30' Length: 30'  
 Direction Run: South to North Direction Run: East to West

Suspected Target: Small pipe in ground  
 Site Ground Cover: gravel + grass  
 Site Soil Type: Silt loam  
 Physical Obstructions or Interferences: fence @ South

## EQUIPMENT

System: SIR<sup>3</sup>  
 Radar Frequency: 300 MHz Pulse Width (P): 2 3  
 Power Source: Van

## OPERATING PARAMETERS

Two-Way Slowness ( $S_2$ ): 8 Target Depth (D): 15  
 Range ( $R = S_2 \cdot D \cdot 1.4$ ): 168  
 Cycles/Scan ( $CS = R/P$ ): 56  
 Filters:  
 High Pass ( $< 1/2 CS$ ): 20 Low Pass ( $> CS$ ): 100

## TEST LINES

Gain:  
 Surface: 4.5 Center: 3.5 Deep: 3.5  
 Lines/Inch: 100 Scans/Sec: 16

COMMENTS: Made numerous adjustments on gain +  
probe position to get good signal + no dropouts of  
signal

# GROUND-PENETRATING RADAR SURVEY LOG

DATE: 12/6/94  
STATION: Jeff Bonack  
AOC/SITE: W AOC-D

OPERATORS: MC4, DG

## TRAVERSE LINE RECORD

[illegible]

# GROUND-PENETRATING RADAR SURVEY LOG

DATE: 12/6/94  
STATION: Jeff Barracks  
AOC/SITE: AOC-D

OPERATORS: MLA, DG

## TRAVERSE LINE RECORD

[illegible]

Small drop out, gains lowered
-------------------------------

Small hop out

again reduce gain!

fix paper location

✓ Some drop outs,  
decreased gain

AOC-D

12/6/94

300 MHz

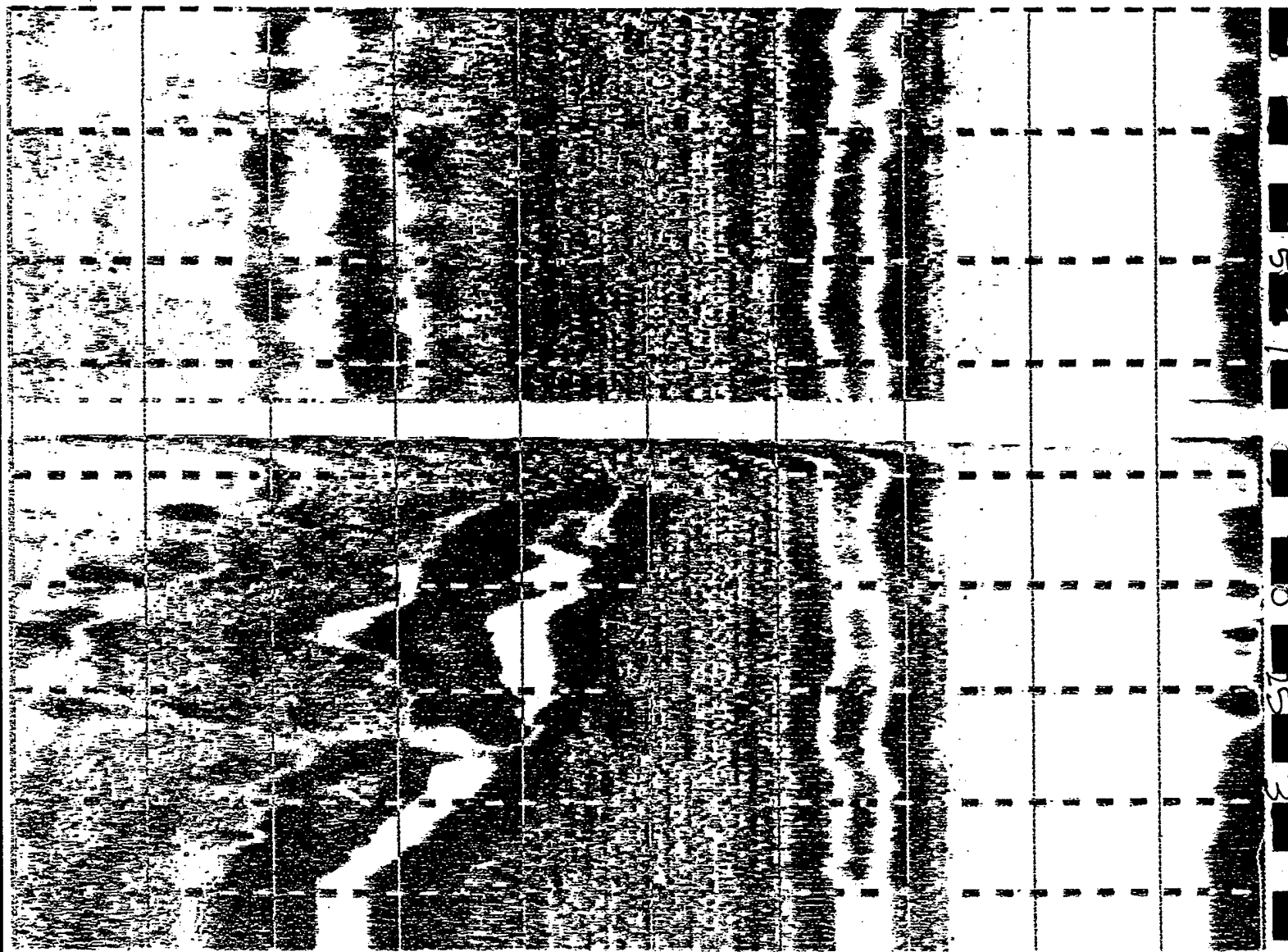
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HPF - 20

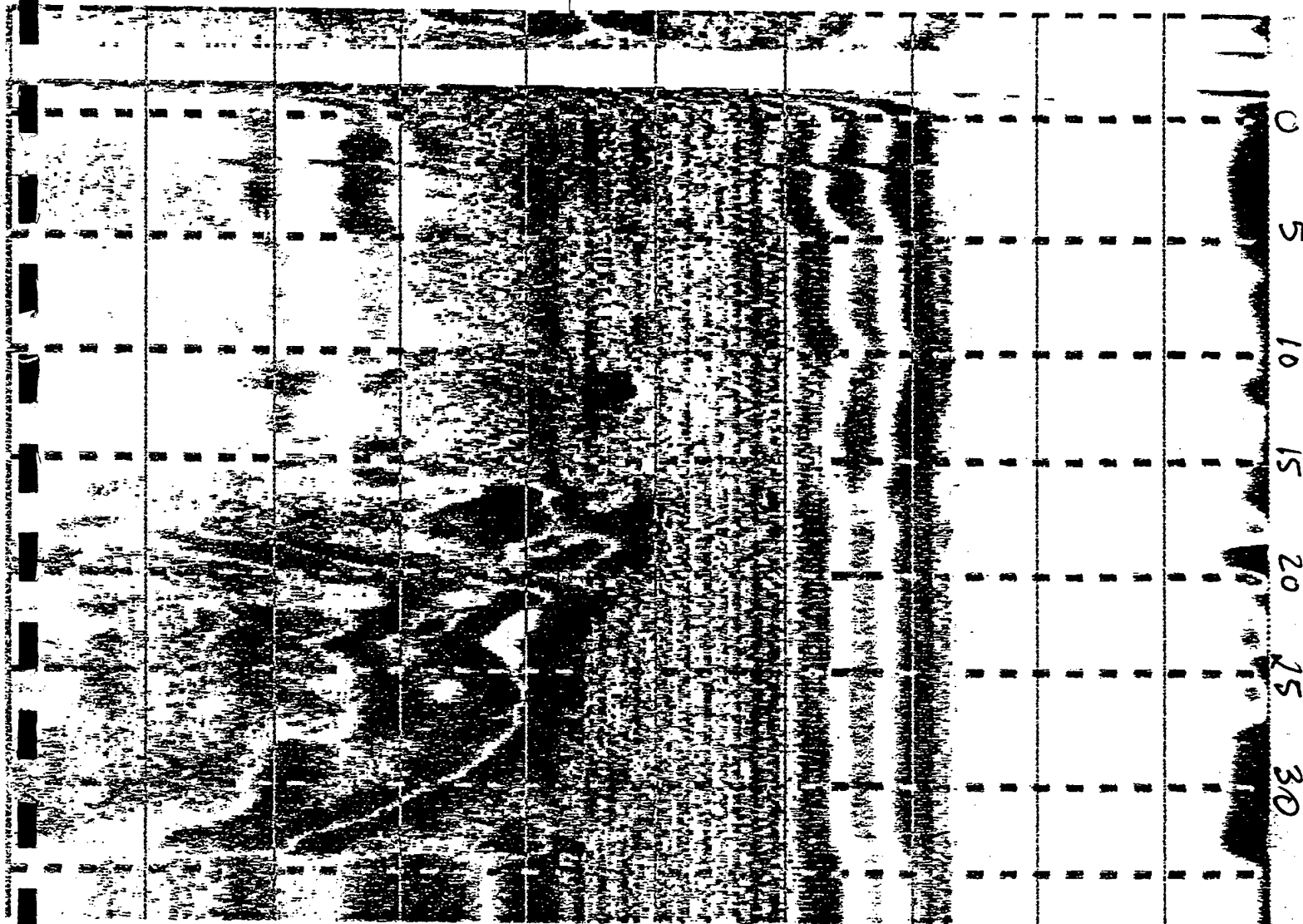
LPF - 100

Vertical

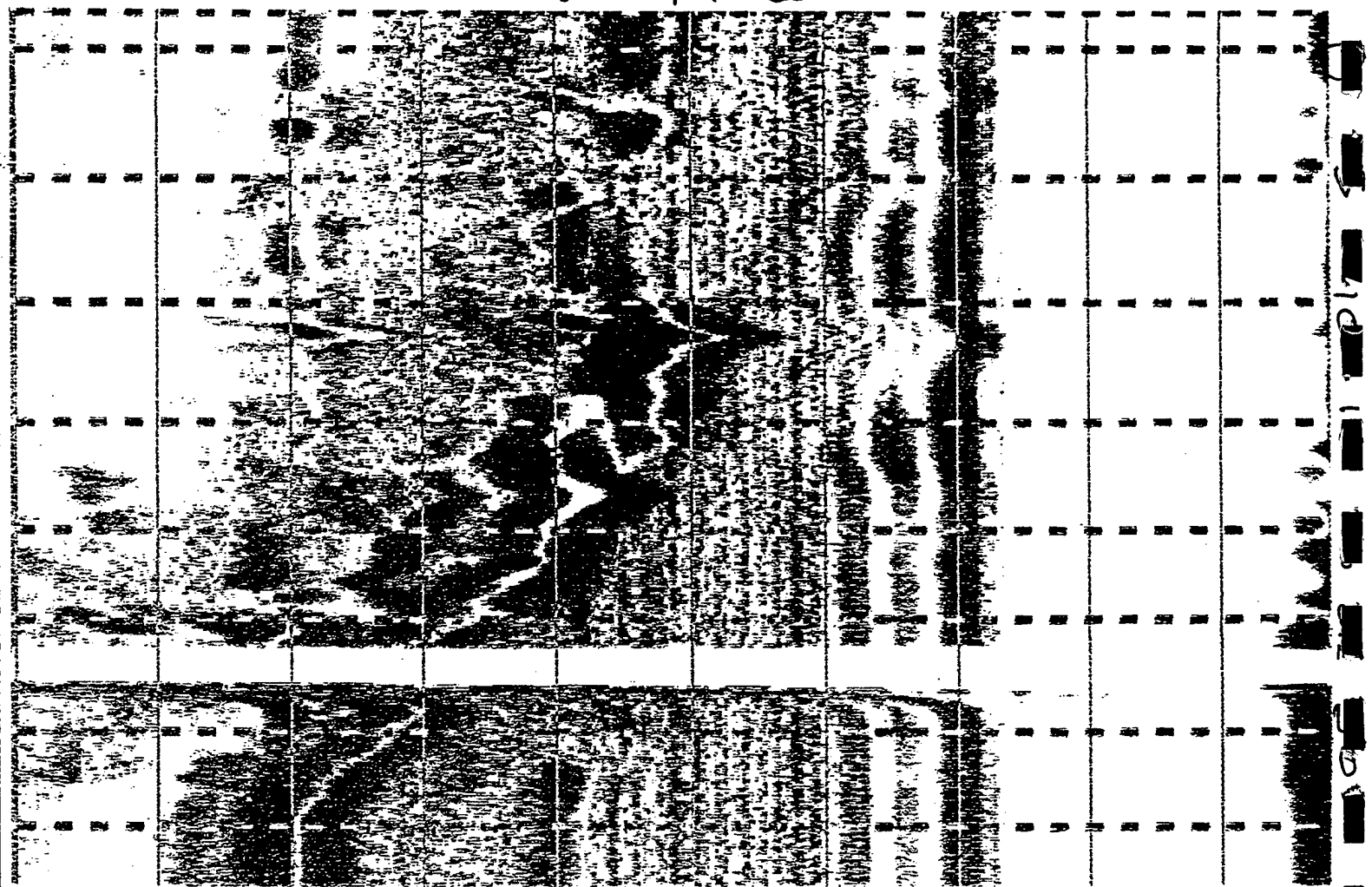
~~Horizontal~~ Traverse 0



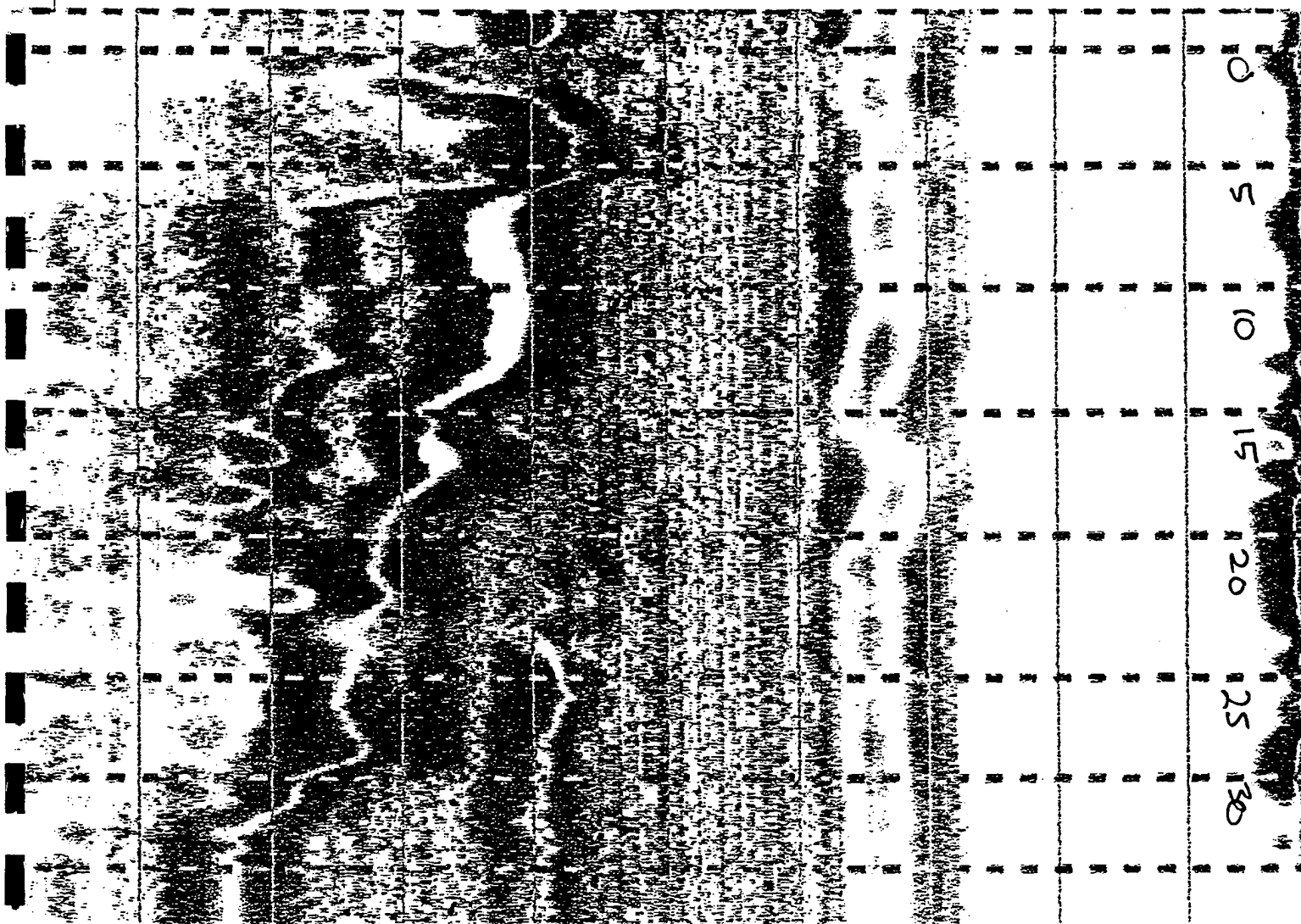
vertical I



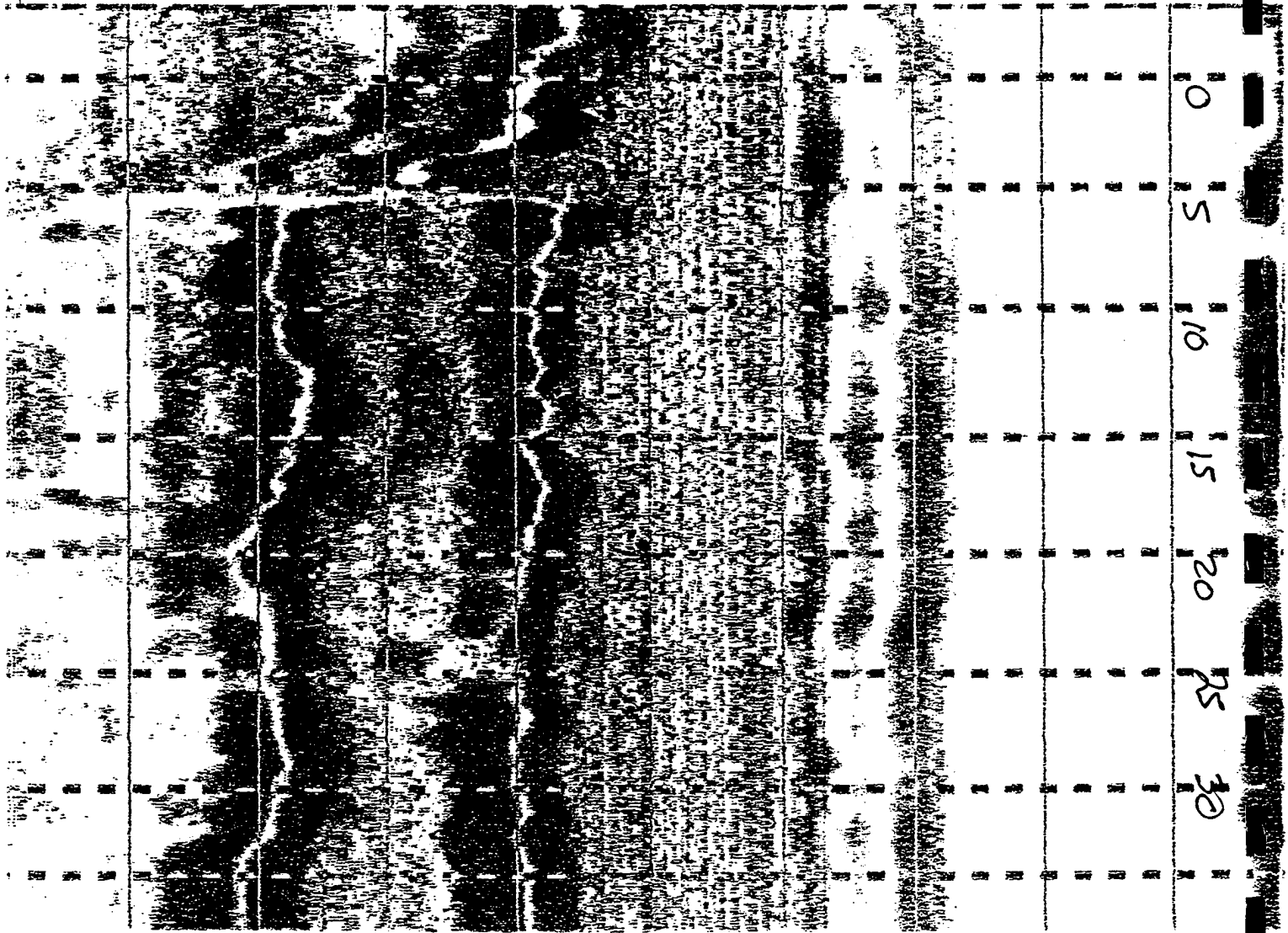
Vertical Traverse 2



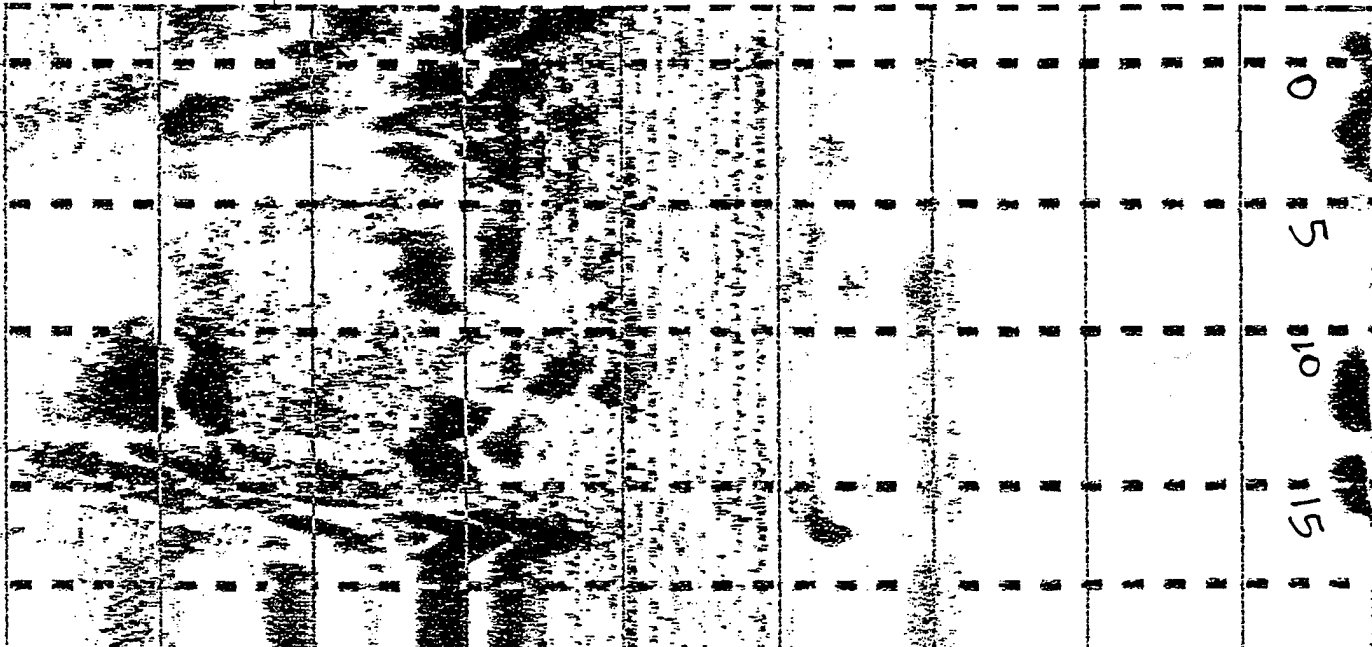
# Vertical Traverse B



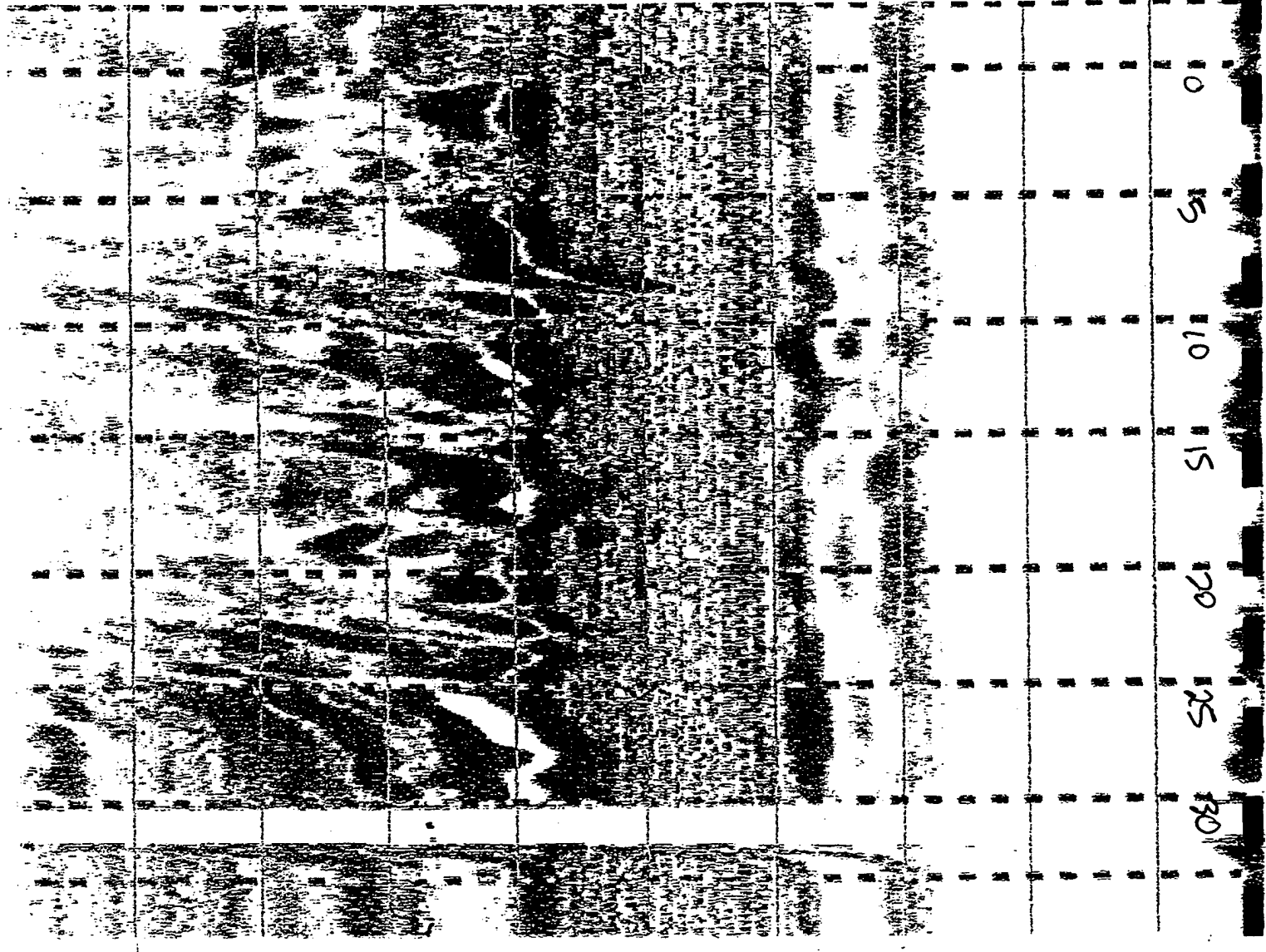
# Vertical Traverse 4



Vertical  
~~Horizontal~~ Traverse 4.5



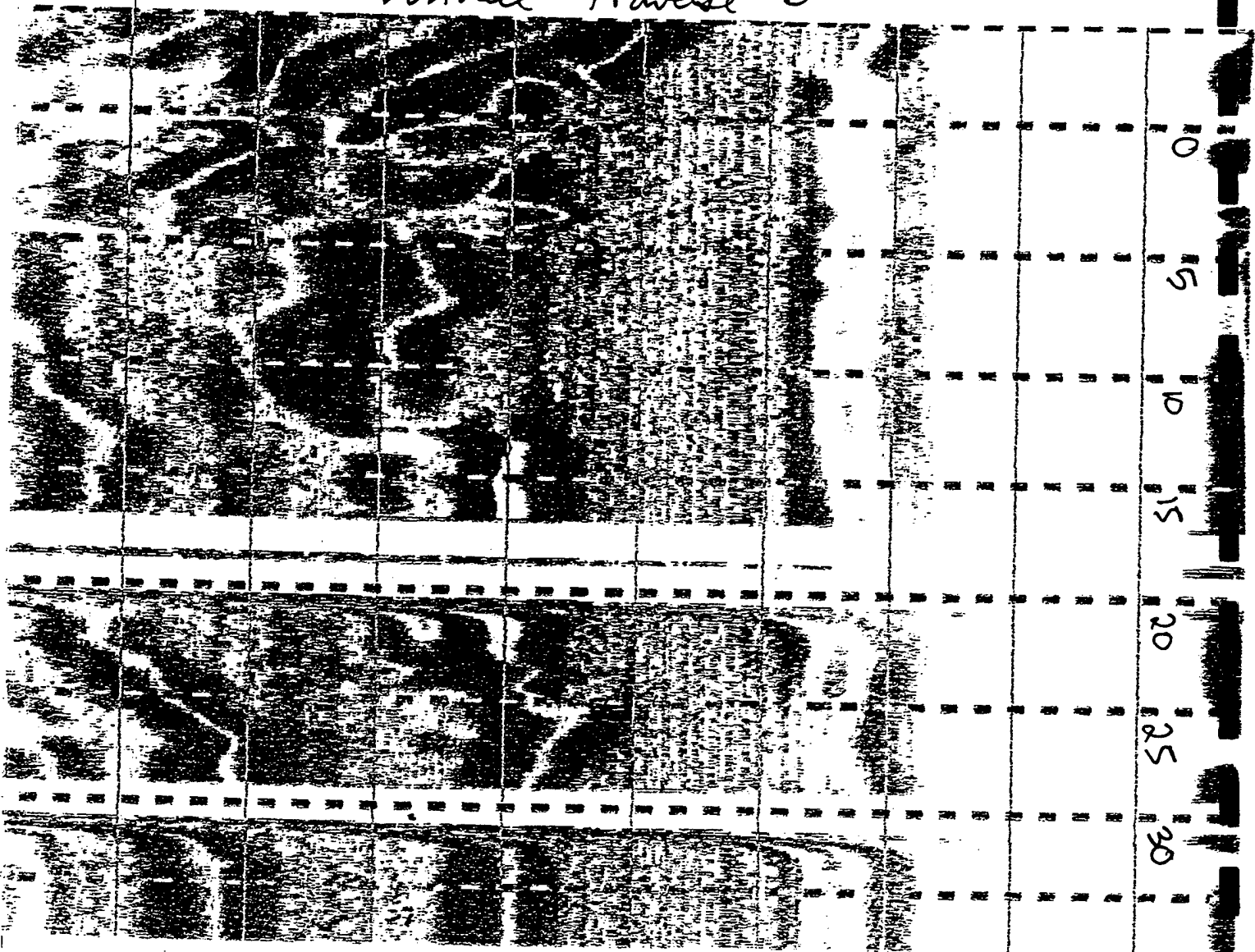
# Vertical Traverse 5



# Vertical Traverse S.5

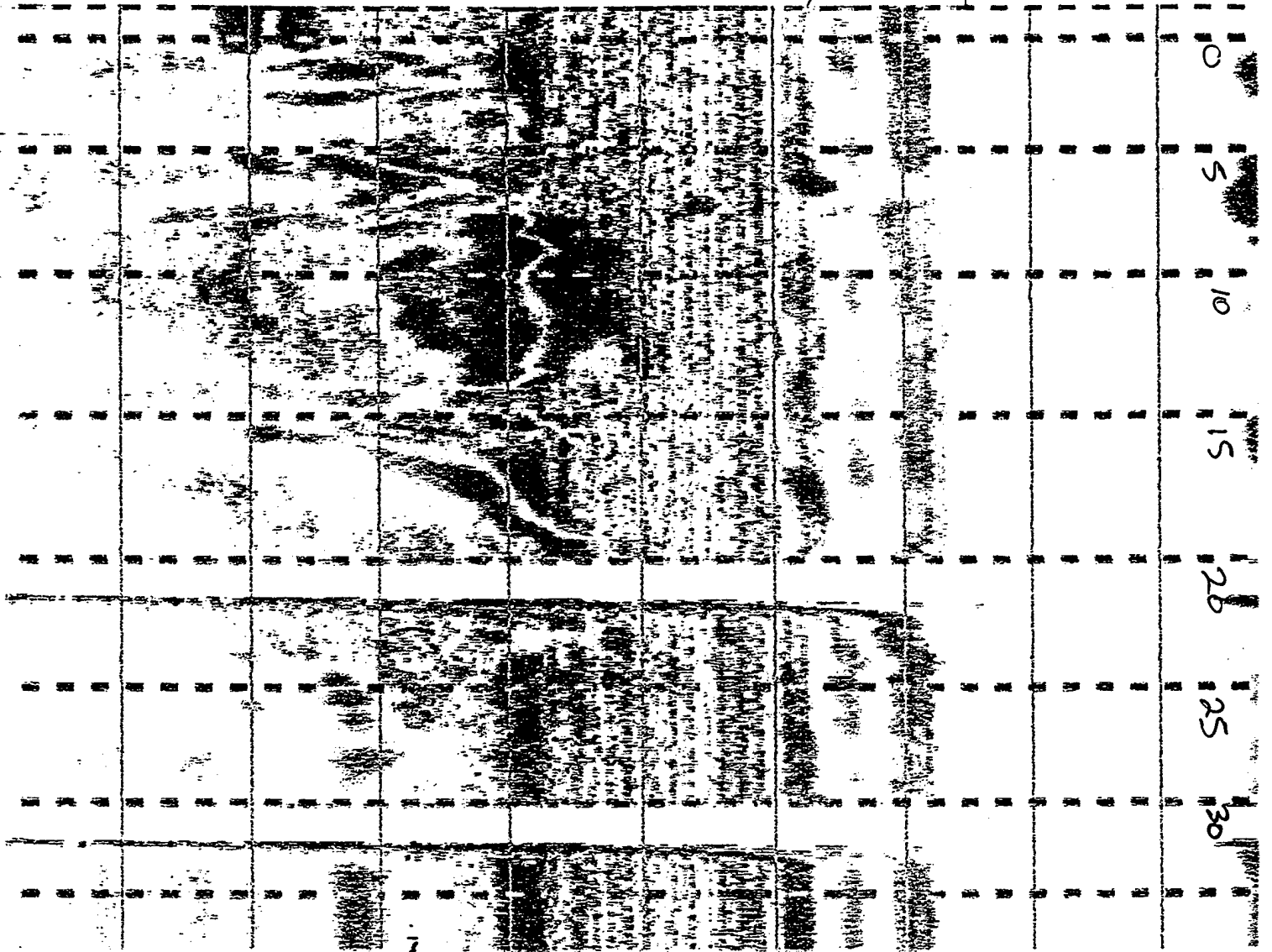
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3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
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92	92	92	92
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100	100	100	100

# Vertical Traverse 6



AOC-D 12/8/6

Horizontal Traverse  $\phi$



# Horizontal Traverso I

0

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10

15

20

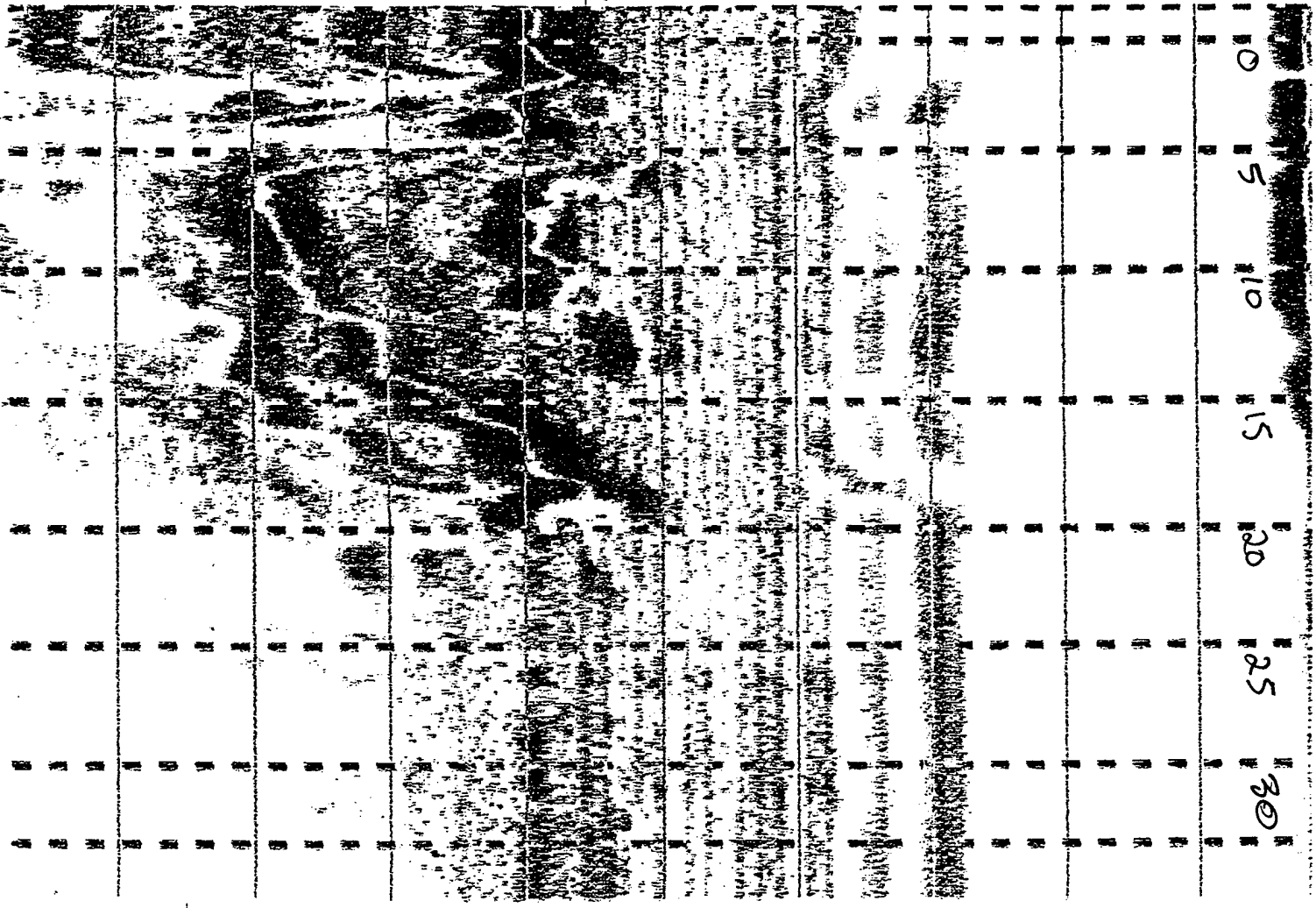
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30

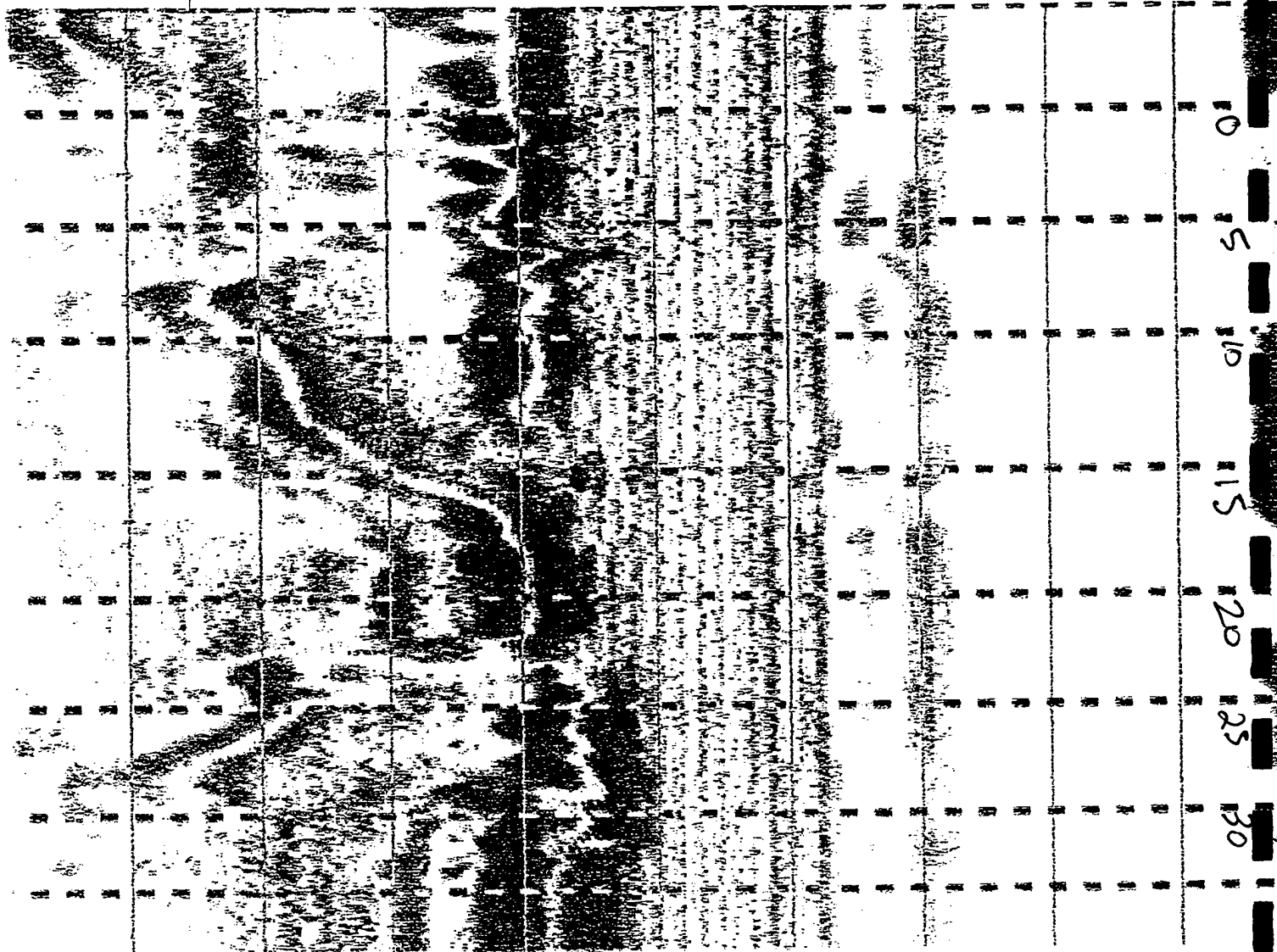


	0	5	10	15	20	25	30
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100							

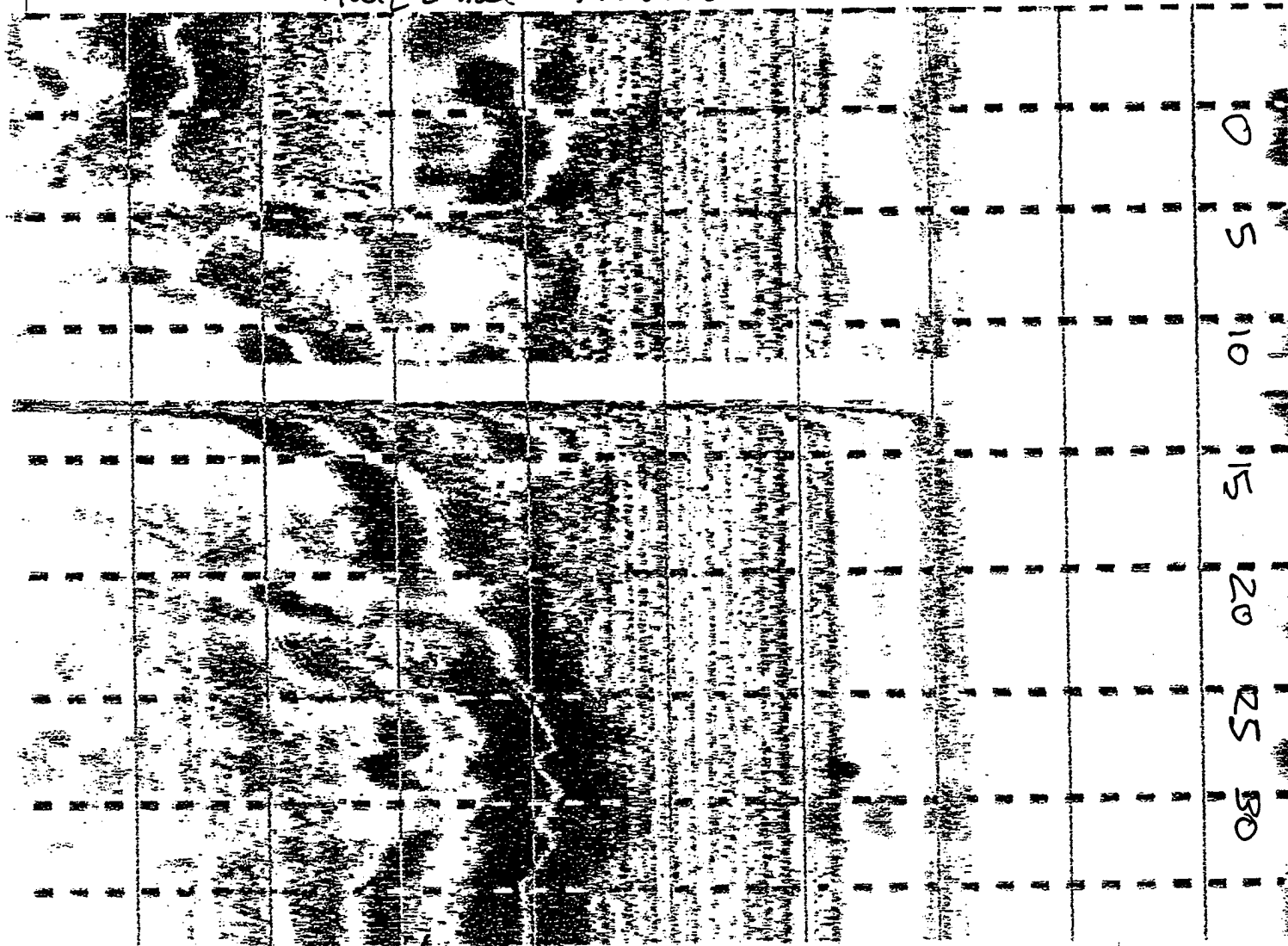
# Horizontal Traverso 3



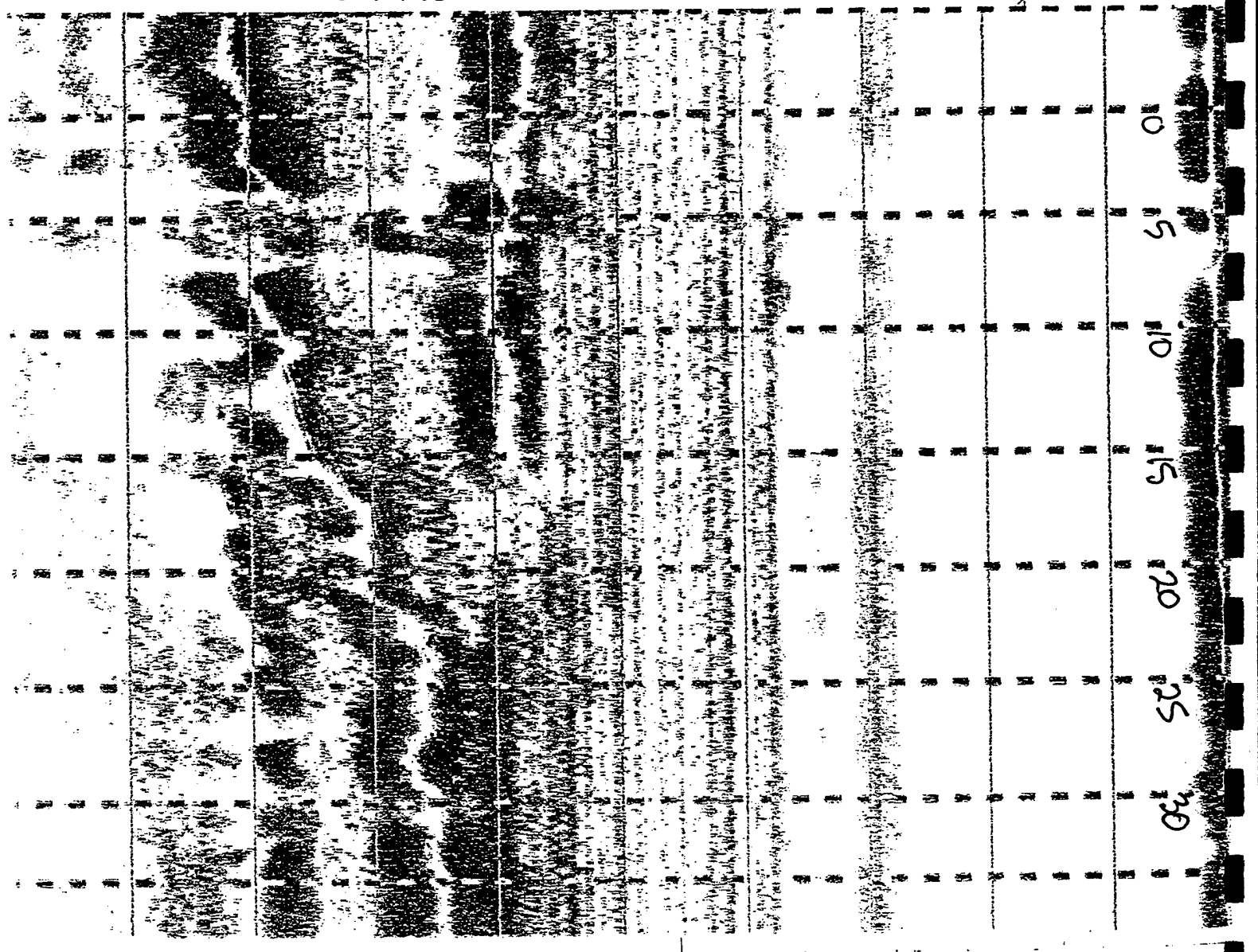
# Horizontal Tomose 4



# Horizontal Traverse 5



Horizontal 6



# MAGNETOMETER SURVEY LOG

DATE: 12/6/94 OPERATORS: MLA, DG  
 STATION: Jefferson Barracks  
 AOC/SITE: AOC-D

## GRID DESCRIPTION

Shape: Square  
 Orientation: N-S  
 Spacing: 2.5 feet

Sampling Lines:  
 Vertical: North-South (sample) Horizontal: East-West (line to line)  
 Compass Orientation: ~~N-S~~

Site Ground Cover: grass and gravel  
 Suspected Target: small pipe in ground  
 Typical Mag Field Value: \_\_\_\_\_ gauss  
 Surface Interferences on Sampling Lines: East side: fence in HAZMAT  
pad with chain link fence & 4-55 gal drums  
South side: chain link fence

## EQUIPMENT

System: Geometrics G-856  
 Vertical Sensor Separation: 30 inches

## SURVEY SETUP

All Ferrous Metal Off Operators: YES  
 Test Signal Values: 54700 gauss  
 Duplicate Repeatability: ~ 1-2 very good gauss  
 Signal Strength: 6.5

Line Number Code: 13 lines --- 0 to 12 one is 1XX (1st test)  
 Grid Origin Location: 0,0 --- SE corner  
 Julian Date: ~~339~~ 340  
 Data Acquired: ✓  
 Unidirectional: ✓ Alternating: \_\_\_\_\_  
 No. Points/Line: 13  
 Total Points: 169

# MAGNETOMETER SURVEY LOG

DATE: 12/6/94 OPERATORS: MLA, DG  
 STATION: AOC Jeff Boudels  
 AOC/SITE: AOC-D

Start 0830 End 0945  
 DATA ACQUISITION RECORD

by 26

Line Number	Line Code	Start Point	Finish Point	Ghost Points
<del>0</del> 0	100	0	12	-
<del>1</del> 1	101	0	12	-
2	102	0	12	-
3	103	0	12	-
4	104	0	12	-
5	105	0	12	-
6	106	0	12	-
7	107	0	12	-
8	108	0	12	-
9	109	0	12	-
10	110	0	12	-
11	111	0	12	-
12	112	0	12	-

23  
51  
77  
103  
129  
155  
181  
207  
233  
259  
285  
311  
337

DATA TRANSFER: COMPUTER FILE NAME: Jeff b-d.gnt

# MAGNETOMETER DATA FOR AOC D AT JEFFERSON BARRACKS ANG5

FILE: JBAOC\_D.WQ1

DATE: 12/06/94

LINE	DATE	CLOCK	STAT#	X	Y	TOP	BOTTOM	GRAD
100	340	82909	0	0	0	54123.5	53937.9	-74.239
100	340	82959	2	0	2.5	54243.2	54106.9	-54.519
100	340	83020	4	0	5	54348.5	54256.3	-36.88
100	340	83044	6	0	7.5	54431.4	54363.5	-27.161
100	340	83104	8	0	10	54521.2	54469.9	-20.519
100	340	83122	10	0	12.5	54587.1	54555.4	-12.68
100	340	83143	12	0	15	54650.6	54642.2	-3.361
100	340	83204	14	0	17.5	54689.1	54695.7	2.639
100	340	83224	16	0	20	54716.7	54731.7	6
100	340	83243	18	0	22.5	54725.6	54736	4.159
100	340	83309	20	0	25	54720.5	54716	-1.8
100	340	83327	22	0	27.5	54717.1	54698.3	-7.52
100	340	83345	24	0	30	54712.5	54684.6	-11.159
101	340	83438	26	2.5	0	53923.1	53564.1	-143.6
101	340	83457	28	2.5	2.5	54071.6	53866.5	-82.041
101	340	83515	30	2.5	5	54265.6	54129.3	-54.52
101	340	83536	32	2.5	7.5	54390.9	54306.5	-33.761
101	340	83557	34	2.5	10	54488.7	54434.1	-21.839
101	340	83616	36	2.5	12.5	54569	54536	-13.2
101	340	83642	38	2.5	15	54632.6	54617.2	-6.161
101	340	83700	40	2.5	17.5	54678.5	54676.3	-0.88
101	340	83743	42	2.5	20	54701.6	54702.6	0.4
101	340	83801	44	2.5	22.5	54707.4	54699.7	-3.081
101	340	83820	46	2.5	25	54705.5	54686.2	-7.72
101	340	83837	48	2.5	27.5	54700.8	54668	-13.12
101	340	83853	50	2.5	30	54701.9	54666.2	-14.281
102	340	83952	52	5	0	53602.8	52259.9	-537.159
102	340	84023	54	5	2.5	53852.4	53413.2	-175.681
102	340	84044	56	5	5	54114.5	53907.9	-82.639
102	340	84102	58	5	7.5	54319.3	54204.7	-45.841
102	340	84130	60	5	10	54445.8	54381.3	-25.8
102	340	84155	62	5	12.5	54550.4	54515.6	-13.92
102	340	84236	64	5	15	54612.4	54592.4	-8
102	340	84303	66	5	17.5	54661.8	54653.8	-3.2
102	340	84324	68	5	20	54681.4	54672.7	-3.481
102	340	84343	70	5	22.5	54689.4	54669.8	-7.841
102	340	84401	72	5	25	54687	54652.5	-13.8
102	340	84418	74	5	27.5	54682.9	54634.1	-19.52
102	340	84437	76	5	30	54683.7	54634	-19.88
103	340	84700	78	7.5	0	54170.6	52167.3	-801.32
103	340	84724	80	7.5	2.5	53830.6	52642.1	-475.4
103	340	84754	82	7.5	5	53988.5	53590.7	-159.12
103	340	84819	84	7.5	7.5	54232.2	54082.9	-59.719
103	340	84841	86	7.5	10	54393.4	54301.8	-36.641
103	340	84905	88	7.5	12.5	54501.8	54459	-17.12
103	340	84922	90	7.5	15	54583.7	54570.1	-5.439
103	340	84940	92	7.5	17.5	54637	54630.3	-2.68
103	340	85002	94	7.5	20	54657.9	54645.8	-4.841
103	340	85058	96	7.5	22.5	54664.8	54641.8	-9.2
103	340	85113	98	7.5	25	54663.9	54625.4	-15.4
103	340	85131	100	7.5	27.5	54661.6	54607.7	-21.561
103	340	85148	102	7.5	30	54666.4	54607.3	-23.641
104	340	85254	104	10	0	56496.1	52175.9	-1728.08
104	340	85312	106	10	2.5	54104.7	51921.5	-873.28

104	340	85333	108	10	5	54025.2	53400.7	-249.8
104	340	85350	110	10	7.5	54200.8	53968.8	-92.8
104	340	85407	112	10	10	54357.9	54227.8	-52.041
104	340	85425	114	10	12.5	54481	54426.4	-21.839
104	340	85441	116	10	15	54558.3	54542.7	-6.241
104	340	85501	118	10	17.5	54610.8	54603.3	-3
104	340	85525	120	10	20	54634	54617.5	-6.6
104	340	85543	122	10	22.5	54644.3	54619.7	-9.841
104	340	85618	124	10	25	54646.9	54613.2	-13.481
104	340	85645	126	10	27.5	54647.9	54597.9	-20
104	340	85718	128	10	30	54650	54593.5	-22.6
105	340	85823	130	12.5	0	55819.1	52007.1	-1524.8
105	340	85842	132	12.5	2.5	54393.3	52580.3	-725.2
105	340	85901	134	12.5	5	54112.3	53555.6	-222.68
105	340	85928	136	12.5	7.5	54203.1	53896	-122.841
105	340	85946	138	12.5	10	54334.1	54179	-62.041
105	340	90002	140	12.5	12.5	54438	54355.8	-32.88
105	340	90023	142	12.5	15	54522.9	54486.6	-14.52
105	340	90043	144	12.5	17.5	54572.8	54548.5	-9.72
105	340	90101	146	12.5	20	54602.6	54574.6	-11.2
105	340	90118	148	12.5	22.5	54616.9	54585.9	-12.4
105	340	90139	150	12.5	25	54624.8	54589	-14.32
105	340	90156	152	12.5	27.5	54630.4	54585	-18.161
105	340	90214	154	12.5	30	54635.7	54581.9	-21.519
106	340	90337	156	15	0	55253.4	52625.1	-1051.32
106	340	90358	158	15	2.5	54608.1	53123.7	-593.761
106	340	90420	160	15	5	54154.3	53611.9	-216.959
106	340	90445	162	15	7.5	54222.2	53891.2	-132.4
106	340	90504	164	15	10	54321.3	54159.1	-64.88
106	340	90522	166	15	12.5	54438.9	54362.8	-30.441
106	340	90545	168	15	15	54503.8	54462.8	-16.4
106	340	90603	170	15	17.5	54549.2	54510.1	-15.639
106	340	90622	172	15	20	54569.2	54526.7	-17
106	340	90723	174	15	22.5	54593.9	54550	-17.561
106	340	90747	176	15	25	54605.9	54562.1	-17.52
106	340	90805	178	15	27.5	54614.7	54568	-18.68
106	340	90822	180	15	30	54621.7	54569.8	-20.759
107	340	90911	182	17.5	0	55164	54402.1	-304.759
107	340	90932	184	17.5	2.5	54223.3	53325.7	-359.041
107	340	90949	186	17.5	5	54206.5	53633.6	-229.159
107	340	91009	188	17.5	7.5	54224.6	53877.7	-138.761
107	340	91032	190	17.5	10	54311.3	54121.8	-75.8
107	340	91051	192	17.5	12.5	54409.3	54307.6	-40.68
107	340	91120	194	17.5	15	54468.6	54404.1	-25.8
107	340	91152	196	17.5	17.5	54502.2	54441.9	-24.119
107	340	91208	198	17.5	20	54525.9	54461.7	-25.681
107	340	91226	200	17.5	22.5	54560.3	54499.6	-24.28
107	340	91242	202	17.5	25	54576.7	54521.7	-22
107	340	91258	204	17.5	27.5	54590.5	54536.8	-21.48
107	340	91316	206	17.5	30	54602.8	54545.6	-22.88
108	340	91428	208	20	0	55283.4	54002.1	-512.52
108	340	91452	210	20	2.5	54476.5	53433.2	-417.32
108	340	91527	212	20	5	54203.4	53603.2	-240.081
108	340	91546	214	20	7.5	54203.4	53823.1	-152.12
108	340	91603	216	20	10	54281.4	54032.7	-99.481
108	340	91623	218	20	12.5	54359	54195.2	-65.52
108	340	91641	220	20	15	54415.2	54295.2	-48
108	340	91700	222	20	17.5	54450.8	54344.7	-42.441

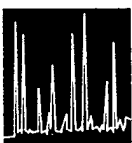
108	340	91722	224	20	20	54480.2	54387.1	-37.239
108	340	91739	226	20	22.5	54503.6	54418.7	-33.961
108	340	91755	228	20	25	54541.3	54470.6	-28.28
108	340	91815	230	20	27.5	54566.1	54502.6	-25.4
108	340	91833	232	20	30	54587.6	54525.9	-24.68
109	340	91930	234	22.5	0	55352.9	54367.8	-394.041
109	340	91956	236	22.5	2.5	54357.4	53422.6	-373.92
109	340	92029	238	22.5	5	54141.4	53660	-192.561
109	340	92048	240	22.5	7.5	54167.3	53624.5	-217.12
109	340	92109	242	22.5	10	54249.1	53855.2	-157.561
109	340	92128	244	22.5	12.5	54325.2	54015.4	-123.919
109	340	92145	246	22.5	15	54346.9	54063.1	-113.52
109	340	92202	248	22.5	17.5	54372.4	54177.2	-78.081
109	340	92223	250	22.5	20	54411.3	54259.5	-60.72
109	340	92240	252	22.5	22.5	54452.5	54331.4	-48.439
109	340	92258	254	22.5	25	54500.4	54412.2	-35.281
109	340	92321	256	22.5	27.5	54535.5	54464.4	-28.439
109	340	92344	258	22.5	30	54578.1	54520.2	-23.161
110	340	92459	260	25	0	54930	53547.9	-552.839
110	340	92521	262	25	2.5	54289.8	53204.5	-434.12
110	340	92539	264	25	5	54056.3	53366.9	-275.759
110	340	92557	266	25	7.5	54182.1	53713.3	-187.52
110	340	92629	268	25	10	54346.3	53791.5	-221.92
110	340	92649	270	25	12.5	54393.6	53825.6	-227.2
110	340	92708	272	25	15	54345.4	53847.8	-199.041
110	340	92727	274	25	17.5	54299.2	53928.4	-148.319
110	340	92758	276	25	20	54324.2	54081.3	-97.159
110	340	92814	278	25	22.5	54400.5	54234.8	-66.28
110	340	92835	280	25	25	54456.3	54345.8	-44.2
110	340	92851	282	25	27.5	54513.2	54435.8	-30.959
110	340	92908	284	25	30	54573.8	54523.5	-20.12
111	340	93007	286	27.5	0	54572.6	52792.8	-711.92
111	340	93027	288	27.5	2.5	54190.8	52930.4	-504.159
111	340	93046	290	27.5	5	54290.3	53148.6	-456.68
111	340	93112	292	27.5	7.5	54522.5	52475	-819
111	340	93146	294	27.5	10	54769.4	53783.9	-394.2
111	340	93210	296	27.5	12.5	54901.1	53848.9	-420.88
111	340	93250	298	27.5	15	54589.3	53583.7	-402.241
111	340	93309	300	27.5	17.5	54327.6	53524.6	-321.2
111	340	93331	302	27.5	20	54252.8	53831	-168.72
111	340	93351	304	27.5	22.5	54304.2	54039.8	-105.759
111	340	93412	306	27.5	25	54400.8	54256.4	-57.759
111	340	93429	308	27.5	27.5	54478.8	54384.9	-37.559
111	340	93450	310	27.5	30	54563.1	54514.4	-19.48
112	340	93653	312	30	0	54896.1	52033.8	-1144.92
112	340	93721	314	30	2.5	54620.7	52858.5	-704.88
112	340	93743	316	30	5	52211.8	53461.9	500.041
112	340	93812	318	30	7.5	52077.2	53941.8	745.841
112	340	93843	320	30	10	55401.6	54292.1	-443.8
112	340	93908	322	30	12.5	46464.7	54533.4	3227.481
112	340	93941	324	30	15	52070.1	53428.9	543.52
112	340	94009	326	30	17.5	54636.8	53131.4	-602.159
112	340	94036	328	30	20	54277	53435.3	-336.68
112	340	94054	330	30	22.5	54198.9	53818.6	-152.12
112	340	94112	332	30	25	54344.4	54160.3	-73.641
112	340	94132	334	30	27.5	54451.1	54346.4	-41.88
112	340	94154	336	30	30	54545.2	54492.4	-21.119

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**APPENDIX B**

**SOIL GAS SURVEY RESULTS**

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# DHL

ANALYTICAL

OPERATIONAL TECHNOLOGIES CORP.

LOCATION: ANG'S - ST. LOUIS, MO.

PROJECT# 1315105

DHL Project #941206T2

BTEX BY EPA MODIFIED 8020 AND TPH BY MODIFIED 8015 ANALYSIS OF SOIL VAPOR

SAMPLE NUMBER	DATE ANALYZED	TPH (ppmV) *	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZ (ug/L)	XYLENES (ug/L)
SGS-1	12/07/94	ND	ND	ND	ND	ND
SGS-2	12/07/94	ND	ND	ND	ND	ND
SGS-3	12/07/94	ND	ND	ND	ND	ND
SGS-4	12/07/94	ND	ND	ND	ND	ND
SGS-5	12/07/94	ND	ND	ND	ND	ND
SGS-6	12/07/94	17	ND	ND	ND	ND
SGS-7	12/07/94	ND	ND	ND	ND	ND
SGS-8	12/07/94	ND	ND	ND	ND	ND
SGS-9	12/07/94	ND	ND	ND	ND	ND
DETECTION LIMIT		10	1	1	1	1

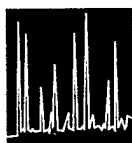
ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

\* INDICATES CONCENTRATION EXPRESSED AS HEXANE

ANALYSES PERFORMED ON-SITE IN DHL'S TNRCC CERTIFIED MOBILE LAB

ANALYSES PERFORMED BY: Scott Schroeder

DATA REVIEWED BY: Allan Cobb



# DHL

ANALYTICAL OPERATIONAL TECHNOLOGIES CORP.

LOCATION: ANG - ST. LOUIS, MO.

PROJECT# 1315105

DHL Project #941206T2

BTEX BY EPA MODIFIED 8020 AND TPH BY MODIFIED 8015 ANALYSIS OF SOIL VAPOR

SAMPLE NUMBER	DATE ANALYZED	TPH (ppmV)*	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZ (ug/L)	XYLENES (ug/L)
SGS-24	12/06/94	ND	ND	ND	ND	ND
SGS-25	12/06/94	ND	ND	ND	ND	ND
SGS-26	12/06/94	33	ND	ND	ND	ND
SGS-27	12/06/94	ND	ND	ND	ND	ND
SGS-28	12/06/94	ND	ND	ND	ND	ND
SGS-29	12/06/94	ND	ND	ND	ND	ND
SGS-30	12/06/94	ND	ND	ND	ND	ND
SGS-31	12/06/94	ND	ND	ND	ND	ND
SGS-32	12/06/94	ND	ND	ND	ND	ND
SGS-33	12/06/94	2202	ND	ND	ND	ND
SGS-34	12/06/94	37	ND	ND	ND	ND
SGS-35	12/06/94	ND	ND	ND	ND	ND
SGS-36	12/06/94	244	ND	ND	ND	ND
SGS-37	12/06/94	ND	ND	ND	ND	ND
SGS-38	12/06/94	13	ND	ND	ND	ND
SGS-39	12/06/94	ND	ND	ND	ND	ND
SGS-40	12/06/94	ND	ND	ND	ND	ND
SGS-41	12/06/94	ND	ND	ND	ND	ND
DETECTION LIMIT		10	1	1	1	1

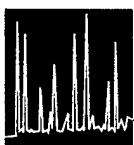
ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

\* INDICATES CONCENTRATION EXPRESSED AS HEXANE

ANALYSES PERFORMED ON-SITE IN DHL'S TNRCC CERTIFIED MOBILE LAB

ANALYSES PERFORMED BY: Scott Schroeder

DATA REVIEWED BY: Allan Cobb



**DHL**  
ANALYTICAL

OPERATIONAL TECHNOLOGIES CORP.

LOCATION: ANG5 - ST. LOUIS, MO.

PROJECT# 1315105

DHL Project #941206T2

BTEX BY EPA MODIFIED 8020 AND TPH BY MODIFIED 8015 ANALYSIS OF SOIL VAPOR

SAMPLE NUMBER	DATE ANALYZED	TPH (ppmV) *	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZ (ug/L)	XYLENES (ug/L)
SGS-10	12/06/94	ND	ND	ND	ND	ND
SGS-11	12/06/94	ND	ND	ND	ND	ND
SGS-12	12/06/94	1371	ND	8.7	4.0	22.5
SGS-13	12/06/94	ND	ND	ND	ND	ND
SGS-14	12/06/94	ND	ND	ND	ND	ND
SGS-15	12/06/94	ND	ND	ND	ND	ND
SGS-16	12/06/94	ND	ND	ND	ND	ND
SGS-17	12/06/94	33	ND	ND	ND	ND
SGS-18	12/06/94	13	ND	ND	ND	ND
SGS-19	12/06/94	ND	ND	ND	ND	ND
SGS-20	12/06/94	ND	ND	ND	ND	ND
SGS-21	12/06/94	ND	ND	ND	ND	ND
SGS-22	12/06/94	ND	ND	ND	ND	ND
SGS-23	12/06/94	ND	ND	ND	ND	ND
DETECTION LIMIT		10	1	1	1	1

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

\* INDICATES CONCENTRATION EXPRESSED AS HEXANE

ANALYSES PERFORMED ON-SITE IN DHL'S TNRCC CERTIFIED MOBILE LAB

ANALYSES PERFORMED BY: Scott Schroeder

DATA REVIEWED BY: Allan Cobb



OPERATIONAL TECHNOLOGIES CORP.

LOCATION: ANG5 - ST. LOUIS, MO.

PROJECT# 1315105

DHL Project #941206T2

QUALITY CONTROL CHECK FOR TPH AND BTEX - % ACCURACY

SAMPLE NUMBER	DATE ANALYZED	TPH (ppmV)*	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZ (ug/L)	XYLENES (ug/L)
PROBE BLANK	12/06/94	ND	ND	ND	ND	ND
QCC	12/06/94	99	98	97	97	97
QCC	12/06/94	98	90	90	90	90
QCC	12/06/94	99	88	87	86	93
PROBE BLANK	12/07/94	ND	ND	ND	ND	ND
QCC	12/07/94	104	102	104	105	106
QCC	12/07/94	98	93	92	92	91

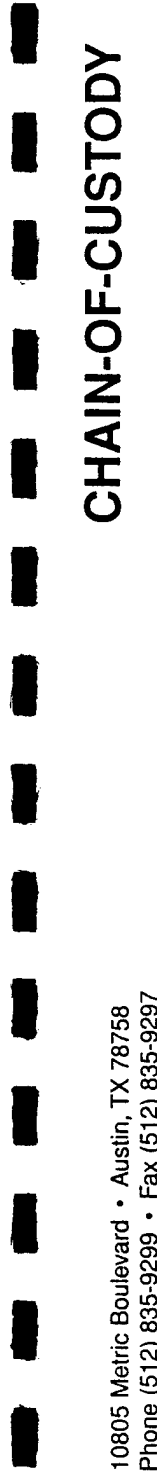
ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

\* INDICATES CONCENTRATION EXPRESSED AS HEXANE

ANALYSES PERFORMED ON-SITE IN DHL'S TNRCC CERTIFIED MOBILE LAB

ANALYSES PERFORMED BY: Scott Schroeder

DATA REVIEWED BY: Allan Cobb



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# CHAIN-OF-CUSTODY

[illegible]



10805 Metric Boulevard • Austin, TX 78758  
Phone (512) 835-9299 • Fax (512) 835-9297

# CHAIN-OF-CUSTODY

CLIENT: OPERATIONAL TECHNOLOGIES CORP  
ADDRESS: 4100 N.W. LOOP 410, SUITE 230 SAN ANTONIO, TX 78229  
PHONE: 210-731-0000 FAX: 210-731-0008  
CLIENT PROJECT #: 1315-105 PROJECT MANAGER: EARL PARRER

DATE: 12/6/94 PAGE 1 OF 2  
DHL PROJECT #: 94120672  
LOCATION: ANGS ST. COUNCIL, MO.  
COLLECTOR: DON WINSTON

Sample I.D.	Depth	Time	Sample Type	Container Type	ANALYSES	TPH 418.1	TPH 8015 (gas)	TPH 8015 (liquid)	VOA 601/8010	VOA 602/8020	VOA 624/8240	SEMI VOL 625/8270	PCBS 608/8080	RCI	PAQPA 8 METALS	TOTAL LEAD	TDS	FIELD NOTES	Total Number of Containers	Laboratory Note Number
SGS-24	5'	0935	GAS	20cc Glass Syringe	X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-25	5'	0950			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-26	5'	1005			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-27	5'	1040			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-28	5'	1045			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-29	5'	1055			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-30	5'	1105			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
PROBE BLANK					X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-31	5'	1120			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-21	2'	1230			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-22	5'	1255			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-23	5'	1245			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-20	5'	1320			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-11	5'	1345			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-14	5'	1340			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-13	5'	1350			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-17	5'	1335			X	X	X	X	X	X	X	X	X	X	X	X	X		1	
SGS-15	5'	1355			X	X	X	X	X	X	X	X	X	X	X	X	X		1	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	LABORATORY NOTES:			
<u>Don Winston</u>	<u>12/6/94 1630</u>	<u>Earl Parrer</u>	<u>12/6/94 1630</u>				
TOTAL NUMBER OF SAMPLES							
CHAIN OF CUSTODY SEALS Y/N/NA							
SEALS INTACT? Y/N/NA							
RECEIVED GOOD COND./COLD							
NOTES:							

## SAMPLE DISPOSAL INSTRUCTIONS

☐ DHL DISPOSAL @ \$4.00 each ☐ Return ☐ Pickup



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Phone (512) 835-9299 • Fax (512) 835-9297

# CHAIN-OF-CUSTODY

CLIENT: OPERATIONAL TECHNOLOGIES CORP.	DATE: 12/6/94	PAGE 2 OF 2
ADDRESS: 4100 N.W. LOOP 410, SUITE 220, DALLAS, TX 75229	DHL PROJECT #: 94120672	
PHONE: 210-731-0000	LOCATION: 17NGS - ST. LOUIS, MO.	
CLIENT PROJECT #: 1315105	COLLECTOR: DON WINSTON	
PROJECT MANAGER: EARL PARKER		

Sample I.D.	Depth	Time	Sample Type	Container Type	ANALYSES (mg)	TPH 418.1	TPH 8015 (ppb)	TPH 8015 (ppb) (diesel)	VOC 601/8010	VOC 602/8020	VOC 624/8240	SEM VOL 625/8270	PCBs 608/8080	PCl 610/8100	PAHs 8 METALS	TOTAL LEAD	TOX	TDS	FIELD NOTES	Total Number of Containers	Laboratory Note Number
SGS-10	5'	1420	GAS	20cc GLASS SYRINGE	X	X	X	X												1	
SGS-12	5'	1425			X	X	X	X												1	
SGS-15	5'	1425			X	X	X	X												1	
SGS-18	5'	1430			X	X	X	X												1	
SGS-16	5'	1410			X	X	X	X												1	
SGS-32	5'	1520			X	X	X	X												1	
SGS-33	5'	1535			X	X	X	X												1	
SGS-35	5'	1525			X	X	X	X												1	
SGS-34	5'	1600			X	X	X	X												1	
SGS-36	5'	1540			X	X	X	X												1	
SGS-37	5'	1535			X	X	X	X												1	
SGS-38	5'	1605			X	X	X	X												1	
SGS-39	4'	1615			X	X	X	X												1	
SGS-40	5'	1610			X	X	X	X												1	
SGS-41	5'	1620			X	X	X	X												1	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	SAMPLE RECEIPT	LABORATORY NOTES:
Don Winston	12/6/94 1630	Earl Parker	12/6/94 1630	TOTAL NUMBER OF SAMPLES	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	CHAIN OF CUSTODY SEALS Y/N/NA	
				SEALS INTACT? Y/N/NA	
				RECEIVED GOOD COND./COLD	
SAMPLE DISPOSAL INSTRUCTIONS				NOTES:	
<input type="checkbox"/> DHL DISPOSAL @ \$4.00 each <input type="checkbox"/> Return <input type="checkbox"/> Pickup					

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**APPENDIX C**  
**SOIL BORING LOGS**

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**ST. LOUIS, MO**

**OPERATIONAL TECHNOLOGIES  
CORPORATION**

<b>Project No.:</b>	<b>1315-105</b>
<b>Logged By:</b>	<b>Earl Parker</b>
<b>Drilling Co.:</b>	<b>Hart Environmental</b>
<b>Driller:</b>	<b>Max Tinnin</b>
<b>Date Drilled:</b>	<b>12/08/94</b>
<b>Drilling Method:</b>	<b>Hollow Stem Auger</b>

<b>Sampling Method:</b>	<b>Split-Spoon</b>
<b>Depth Drilled:</b>	<b>20.0 ft. BLS</b>
<b>Depth To Water:</b>	<b>15.0 ft. BLS</b>
<b>Date Measured:</b>	<b>12/09/94</b>
<b>Surface Elevation:</b>	<b>471.67 ft.</b>

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JEFFERSON BARRACKS ANGCS

ST. LOUIS, MO









O P T E C H

OPERATIONAL TECHNOLOGIES  
CORPORATION

## LOG OF BORING Z-002PZ

Project No.: 1315-105  
 Logged By: Earl Parker  
 Drilling Co.: Hart Environmental  
 Driller: Max Tinnin  
 Date Drilled: 12/07/94  
 Drilling Method: Hollow Stem Auger

Sampling Method: Split-Spoon  
 Depth Drilled: 29.5 ft. BLS  
 Depth To Water: NA  
 Date Measured: NA  
 Surface Elevation: 447.67 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
-	-		X		Gravel road base material.	-	-	GW	
2	50		X		Light to dark brown silt and silt loam with small gravel, slightly cohesive, slightly moist.	0.0	-	GM	
3	40		X		Brown sandy silt, very fine sand and silt, cohesive and slightly moist.	0.0	-	ML	
4									
5									
6									
10	80		X		Brown sand and silty sand, slightly cohesive, slightly moist.	0.0	-	ML	
15	100		X		Brown silt and sandy silt, very fine sand, moist, cohesive, little clay.	0.0	-	ML	
20	100		X		Light brown silt and very fine sand, slightly cohesive, very moist.	0.0	-	ML	
25	100		X		Brown silt and fine sand with caliche and limestone fragments at bottom, wet.	0.0	-	GM	
26	10		X			0.0	-	GM	
27									
28									
29									
30	19				Boring Terminated at 29.5 ft. Bedrock Confirmed by HSA Refusal. Piezometer Not Constructed.				



JEFFERSON BARRACKS ANGCS

ST. LOUIS, MO

O P T E C H

OPERATIONAL TECHNOLOGIES  
CORPORATION

## LOG OF BORING A-001BH

Project No.:	1315-105	Sampling Method:	California Split-Spoon
Logged By:	Earl Parker	Depth Drilled:	23.0 ft. BLS
Drilling Co.:	Hart Environmental	Depth To Water:	20.0 ft. BLS
Driller:	Max Tinnin	Date Measured:	12/14/94
Date Drilled:	12/14/94	Surface Elevation:	457.0 FT.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
					Brown to black silt, gravel fill, mostly gravel and cement blocks, hard, dry.	-	-	GW	
3	3	100			Brown to dark brown sandy silt, cohesive and slightly moist.	0.0	0.0	ML	
5	3								
10	3	100			Brown to dark brown, slightly mottled sandy silt, cohesive, slightly moist.	0.0	0.0	ML	
	3								
15	2	100			Brown silt and sandy silt, little clay, slightly cohesive, slightly plastic, moist.	0.0	0.0	ML	
	3								
20	2	100			Brown sandy silt, very fine sand, silt and little clay, slightly plastic, cohesive and wet.	0.0	0.0	ML	
	2								
	4								
25					Boring Terminated at 23.0 ft. Bedrock Confirmed by HSA Refusal.	-	-		


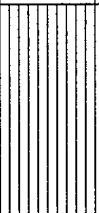

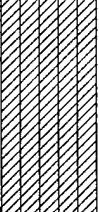

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## LOG OF BORING A-002BH

<b>Project No.:</b>	<b>1315-105</b>	<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Logged By:</b>	<b>Earl Parker</b>	<b>Depth Drilled:</b>	<b>21.5 ft. BLS</b>
<b>Drilling Co.:</b>	<b>Hart Environmental</b>	<b>Depth To Water:</b>	<b>19.0 ft. BLS</b>
<b>Driller:</b>	<b>Max Tinnin</b>	<b>Date Measured:</b>	<b>12/14/94</b>
<b>Date Drilled:</b>	<b>12/14/94</b>	<b>Surface Elevation:</b>	<b>456.8 FT.</b>
<b>Drilling Method:</b>	<b>Hollow Stem Auger</b>		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
2 3 3		70			Dark brown, hard, gravelly sandy silt fill, cohesive, dry.	0.0	0.0	GW	
5 2 4 6		100			Brown, silty sand and silt, cohesive, very slightly plastic, very slightly moist.	0.0	0.0	ML	
10 3 4 3		100			Brown silt and very fine sandy silt, light brown to tan silt, slightly cohesive, slightly moist.	0.0	0.0	ML	
15 2 2 3		100			Brown silt and very fine sandy silt, some clay, plastic, cohesive, moist.	0.0	0.0	ML-CL	
20 3 4 11		100			Brown sandy silt and clay, very plastic, very cohesive, wet.	0.0	0.0	ML-CL	
25					Boring Terminated at 21.5 ft. Bedrock Not Encountered.				

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# LOG OF BORING A-003BH

Project No.:	1315-105
Logged By:	Earl Parker
Drilling Co.:	Hart Environmental
Driller:	Max Tinnin
Date Drilled:	12/14/94
Drilling Method:	Hollow Stem Auger

<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Depth Drilled:</b>	<b>16.5 ft. BLS</b>
<b>Depth To Water:</b>	<b>16.0 ft. BLS</b>
<b>Date Measured:</b>	<b>12/14/94</b>
<b>Surface Elevation:</b>	<b>456.5 FT.</b>

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

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# LOG OF BORING B-001BH

<b>Project No.:</b>	<b>1315-105</b>
<b>Logged By:</b>	<b>Earl Parker</b>
<b>Drilling Co.:</b>	<b>Hart Environmental</b>
<b>Driller:</b>	<b>Max Tinnin</b>
<b>Date Drilled:</b>	<b>12/13/94</b>
<b>Drilling Method:</b>	<b>Hollow Stem Auger</b>

<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Depth Drilled:</b>	<b>31.5 ft. BLS</b>
<b>Depth To Water:</b>	<b>NA</b>
<b>Date Measured:</b>	<b>NA</b>
<b>Surface Elevation:</b>	<b>453.7 FT.</b>

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING					
						PID ppm	ATHA ppm	USCS			
5	5	30	X		Dark brown, loose, sandy, gravelly fill material, some brown sandy silt, mostly gravel fill, loose, dry.	0.0	-	GW			
	4	70			Dark brown fill material, gravelly, loose, dry, some brown sandy silt, very fine sand and silt, very slightly moist.	0.0	13.9	GW			
	4										
	6										
7											
10	7	70			Brown fine sandy silt with some clay, slightly plastic, cohesive, slightly moist.	0.0	0.0	ML			
	22										
	23										
15	2	100	X		Brown very fine sandy silt with little clay, slightly plastic, cohesive and slightly moist.	0.3	0.0	ML			
	2										
	4										
25	4	100	X		Brown very fine sandy silt with little clay, cohesive, slightly plastic, moist.	0.7	0.0	ML			
	15				100	X		0.0		0.0	ML
	8										
30	2										
	3										
	2										
30	7	80			Brown, very fine sandy silt with some clay, plastic, cohesive, moist, bottom with caliche, moist, tan with limestone fragments.	0.0	0.0	ML-CL			
	14										
	-				Boring Terminated at 31.5 ft. Bedrock Confirmed by HSA Refusal.						

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## LOG OF BORING B-002BH

Project No.: 1315-105  
 Logged By: Earl Parker  
 Drilling Co.: Hart Environmental  
 Driller: Max Tinnin  
 Date Drilled: 12/13/94  
 Drilling Method: Hollow Stem Auger

Sampling Method: California Split-Spoon  
 Depth Drilled: 30.5 ft. BLS  
 Depth To Water: NA  
 Date Measured: NA  
 Surface Elevation: 454.6 FT.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
2 2 4		100			Brown sand and gravel (fill) rock fragments, hard, dry.	0.0	0.0	GW	
5 4 6 8		100			Brown, sandy silt, mostly very fine sand and silt, cohesive, slightly moist.	0.0	0.0	ML	
10 2 3 4		100			Brown sandy silt, cohesive, moist.	0.0	0.0	ML	
15 3 3 4		100			Brown sandy silt, fine sand, silty sand, wet, slightly cohesive.	0.0	0.0	ML	
20 3 3 4		100			Brown sandy silt, very little clay, slightly plastic, slightly cohesive, slightly moist.	0.0	0.0	ML	
25 3 3 4		100			Brown, fine sandy silt with some clay, plastic, cohesive, moist.	0.0	0.0	ML-CL	
30 7 17 -		100			Brown sandy silt with some clay, limestone fragments, very cohesive, plastic, wet.	0.0	0.0	ML-CL	
Boring Terminated at 30.5 ft. Bedrock Confirmed by HSA Refusal.									

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## LOG OF BORING B-003BH

Project No.:	1315-105	Sampling Method:	California Split-Spoon
Logged By:	Earl Parker	Depth Drilled:	30.0 ft. BLS
Drilling Co.:	Hart Environmental	Depth To Water:	28.3 ft. BLS
Driller:	Max Tinnin	Date Measured:	12/13/94
Date Drilled:	12/13/94	Surface Elevation:	455.2 FT.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
8		100			Dark brown gravel and silt fill, cohesive, dry, hard (fill material).	0.0	0.0	GW	
7									
8									
5	3	80			Brown sandy silt, hard black silt and gravel (fill), dry.	0.0	0.0	GW	
5									
4									
10	3	100			Brown sandy silt with little clay, slightly plastic, cohesive, wet interval, mostly moist.	0.0	0.0	ML	
10	4								
10	3								
15	4	100			Brown to tan silt and clayey silt, mottled gray silty clay, very plastic, cohesive and moist.	0.0	0.0	ML-CL	
15	4								
15	5								
20	3	100			Light brown to tan silt, and clayey silt, slightly mottled, very plastic. cohesive, and very moist.	0.0	0.0	ML-CL	
20	4								
20	4								
25	3	100			Light brown to tan silt and silty clay, very slightly mottled, very plastic, saturated.	0.0	0.0	ML-CL	
25	3								
25	3								
30					Boring Terminated at 30.0 ft. Bedrock Not Encountered.				

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## LOG OF BORING B-004BH

Project No.:	1315-105	Sampling Method:	California Split-Spoon
Logged By:	Earl Parker	Depth Drilled:	31.5 ft. BLS
Drilling Co.:	Hart Environmental	Depth To Water:	28.0 ft. BLS
Driller:	Max Tinnin	Date Measured:	12/14/94
Date Drilled:	12/14/94	Surface Elevation:	455.6 FT.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
3 4 4		70			Brown to dark brown, silt and gravel fill material, hard, dry.	0.0	0.0	GW	
5 7 6 6		100			Brown to dark brown silty sand, gravel, hard, dry, cohesive.	2.0	0.0	ML	
10 3 3 3		100			Brown, very fine sandy silt, slightly cohesive, slightly moist.	2.7	0.0	ML	
15 3 3 4		100			Brown to dark brown and black, mottled, sandy silt with some clay, very cohesive, slightly moist.	0.3	0.0	ML-CL	
20 3 2 2		100			Light brown to tan silt and sandy silt, moist, cohesive, very slightly plastic, moist.	0.0	0.0	ML-CL	
25					Brown sandy silt and clay, plastic, cohesive, and wet.	0.0	0.0	ML-CL	
30 2 2 2		100			Brown sandy silt, very plastic, very cohesive, very wet, water line shows water at 28.0 ft. BLS, clay.	0.0	0.0	ML-CL	
					Boring Terminated at 31.5 ft. Bedrock Not Encountered.				

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## LOG OF BORING C-001BH

Project No.:	1315-105	Sampling Method:	California Split-Spoon
Logged By:	Earl Parker	Depth Drilled:	5.0 ft. BLS
Drilling Co.:	Hart Environmental	Depth To Water:	NA
Driller:	Max Tinnin	Date Measured:	NA
Date Drilled:	12/12/94	Surface Elevation:	470.2 FT.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
2	3	80			Brown to dark brown sandy and gravelly silt (fill) with large rock fragments.	0.0	-	GM	
5					Could not obtain a sample due to rock at 5.0 ft. BLS.	-	-		
					Boring Terminated at 5.0 ft. Bedrock or Boulders Encountered.				

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## LOG OF BORING C-002BH

Project No.: 1315-105  
 Logged By: Earl Parker  
 Drilling Co.: Hart Environmental  
 Driller: Max Tinnin  
 Date Drilled: 12/12/94  
 Drilling Method: Hollow Stem Auger

Sampling Method: California Split-Spoon  
 Depth Drilled: 13.5 ft. BLS  
 Depth To Water: NA  
 Date Measured: NA  
 Surface Elevation: 470.3 FT.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
2 2 4		100			Brown silt and very fine sand, slightly cohesive, slightly moist.	2.3	0.0	ML	
5 2 3 5		100			Brown sandy silt, very fine sand, silt with little clay, slightly moist, cohesive.	0.5	5.0	ML	
10 3 7 7 4 5 8		60    100			Brown sandy silt and clayey silt, slightly plastic, cohesive, slightly moist.	0.7   0.5	17.2   9.2	ML   ML	
15					Boring Terminated at 13.5 ft. Bedrock Confirmed by HSA Refusal.				

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# LOG OF BORING C-003BH

<b>Project No.:</b>	<b>1315-105</b>
<b>Logged By:</b>	<b>Earl Parker</b>
<b>Drilling Co.:</b>	<b>Hart Environmental</b>
<b>Driller:</b>	<b>Max Tinnin</b>
<b>Date Drilled:</b>	<b>12/12/94</b>
<b>Drilling Method:</b>	<b>Hollow Stem Auger</b>

<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Depth Drilled:</b>	<b>7.5 ft. BLS</b>
<b>Depth To Water:</b>	<b>NA</b>
<b>Date Measured:</b>	<b>NA</b>
<b>Surface Elevation:</b>	<b>470.4 FT.</b>

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# LOG OF BORING C-004BH

Project No.:	1315-105
Logged By:	Earl Parker
Drilling Co.:	Hart Environmental
Driller:	Max Tinnin
Date Drilled:	12/12/94
Drilling Method:	Hollow Stem Auger

<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Depth Drilled:</b>	<b>6.5 ft. BLS</b>
<b>Depth To Water:</b>	<b>NA</b>
<b>Date Measured:</b>	<b>NA</b>
<b>Surface Elevation:</b>	<b>471.1 FT.</b>

<b>Depth (ft.)</b>	<b>Blows/6"</b>	<b>% Recovery</b>	<b>Samples</b>	<b>Graphic</b>	<b>DESCRIPTION OF MATERIALS</b>	<b>FIELD SCREENING</b>			
						<b>PID ppm</b>	<b>ATHA ppm</b>	<b>USCS</b>	
0 - 5	576	80	[Solid Black]	[Vertical Lines]	Brown sandy silt, very fine sand, little clay, cohesive, slightly plastic, slightly moist.	1.5	6.8	ML	
5 - 6.5	750-	60	[Solid Black]	[Vertical Lines]	Light brown, sandy and silty sand, medium sand and weathered limestone, moist, slightly cohesive.	1.8	183.0	ML	
6.5 ft. +					Boring Terminated at 6.5 ft. Bedrock Confirmed by HSA Refusal.				

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# O P T E C H

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# LOG OF BORING C-005BH

<b>Project No.:</b>	<b>1315-105</b>
<b>Logged By:</b>	<b>Earl Parker</b>
<b>Drilling Co.:</b>	<b>Hart Environmental</b>
<b>Driller:</b>	<b>Max Tinnin</b>
<b>Date Drilled:</b>	<b>12/12/94</b>
<b>Drilling Method:</b>	<b>Hollow Stem Auger</b>

<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Depth Drilled:</b>	<b>8.0 ft. BLS</b>
<b>Depth To Water:</b>	<b>NA</b>
<b>Date Measured:</b>	<b>NA</b>
<b>Surface Elevation:</b>	<b>470.9 FT.</b>

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## LOG OF BORING D-001BH

<b>Project No.:</b>	<b>1315-105</b>	<b>Sampling Method:</b>	<b>California Split-Spoon</b>
<b>Logged By:</b>	<b>Earl Parker</b>	<b>Depth Drilled:</b>	<b>26.8 ft. BLS</b>
<b>Drilling Co.:</b>	<b>Hart Environmental</b>	<b>Depth To Water:</b>	<b>NA</b>
<b>Driller:</b>	<b>Max Tinnin</b>	<b>Date Measured:</b>	<b>NA</b>
<b>Date Drilled:</b>	<b>12/09/94</b>	<b>Surface Elevation:</b>	<b>487.3 FT.</b>
<b>Drilling Method:</b>	<b>Hollow Stem Auger</b>		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
					Gravel road base material.	-	-	GW	
5	3	10			Gravel and sand (fill material), road base.	0.0	-	GW	
	9				Rock and gravel, brick fragments (fill).	-	-	GW	
10	2	100			Brown silt and very fine sand, mostly sandy silt, slightly cohesive, slightly moist.	0.0	-	ML	
	3								
	5								
15	2	100			Brown silt and sand, very fine sandy silt, slightly cohesive and slightly moist.	0.0	-	ML	
	2								
	4								
20	2	100			Brown and dark brown sandy silt and silt, some very fine sand, slightly plastic, cohesive and moist.	0.0	-	ML	
	4								
	6								
25	3	100			Brown silt and clayey silt, plastic, cohesive, moist, limestone fragments (bottom).	0.0	-	ML	
	6								
	20								
					Boring Terminated at 26.8 ft. Bedrock Confirmed by HSA Refusal.				

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## LOG OF BORING D-002BH

Project No.:	1315-105	Sampling Method:	California Split-Spoon
Logged By:	Earl Parker	Depth Drilled:	22.8 ft. BLS
Drilling Co.:	Hart Environmental	Depth To Water:	NA
Driller:	Max Tinnin	Date Measured:	NA
Date Drilled:	12/09/94	Surface Elevation:	488.1 FT.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID ppm	ATHA ppm	USCS	
2.0	-				Gravel and dark brown soil (fill material), slight odor at 2.0 ft. BLS (PID).	2.3	-	GW	
5.0	-				Gravel and sand fill, mostly gravel, some black staining on gravel, becoming soft at 8.5 ft. BLS.	1.5	-	GW	
10.0	4 7 17	100			Brown silt and fine sand, sandy silt, slightly cohesive, slightly moist, very slight odor.	9.0	-	ML	
15.0	2 3 5	100			Brown sandy silt with little clay, very slightly plastic, moist (steam), no odor.	10.5	-	ML	
20.0	2 4 7 17	100			Brown silt and clayey silt, caliche and limestone fragments, cohesive, moist, no odor.	6.7	-	ML	
22.8	-	70			Boring Terminated at 22.8 ft. Bedrock Confirmed by HSA Refusal.	4.3	-	GM	

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**APPENDIX D**

**FIELD GC SCREENING RESULTS**

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## Field GC Data Summary

157th ACG, Jernison Barracks ANG, St. Louis, Missouri

Location	Sample Interval	Concentration (ppb)										
		Benzene	Toluene	Ethylbenzene	m-,p-xylene	o-xylene	Additional Analytes					
							DCE	TCE	PCE			
1 ppm STD	N/A	1,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	
10 ppm STD	N/A	10,000	10,000	10,000	20,000	10,000	10,000	10,000	10,000	10,000	10,000	
100 ppb STD	N/A	100	100	100	200	100	100	100	100	100	100	
Air Blank	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PZ-1	1' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	15' BLS	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	20' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PZ-2	1' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10' BLS	71	86	ND	ND	ND	ND	ND	ND	ND	ND	
	25' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PZ-3	1' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	15' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
A-001BH	1' BLS	ND	ND	ND	ND	ND	ND	ND	ND	40	ND	
	3.5' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10' BLS	2	ND	6	ND	ND	ND	ND	ND	ND	ND	
A-002BH	20' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	5' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10' BLS	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	
A-002BH	15' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	20' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

## Field GC Data Summary (Continued)

Location	Sample Interval	Concentration (ppb)						Additional Analytes		
		Benzene	Toluene	Ethylbenzene	m-, p-xylene	o-xylene	Additional Analytes			
							DCE	TCE	PCE	
A-003BH	4' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND
	15' BLS	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2' BLS	3	ND	ND	ND	ND	ND	2	2	101
	10' BLS	3	ND	ND	ND	ND	ND	2	2	8
B-001BH	15' BLS	3	ND	ND	ND	ND	ND	2	2	4
	20' BLS	3	ND	ND	ND	ND	ND	2	2	2
	24' BLS	3	ND	ND	ND	ND	ND	1	1	ND
	26' BLS	4	ND	ND	ND	ND	ND	ND	ND	ND
	30' BLS	3	ND	ND	ND	ND	ND	1	1	ND
	0.5' BLS	3	ND	ND	ND	ND	ND	2	2	ND
	5' BLS	3	ND	ND	ND	ND	ND	2	2	ND
B-002BH	10' BLS	4	ND	ND	ND	ND	ND	2	2	24
	15' BLS	4	ND	ND	ND	ND	ND	2	2	8
	20' BLS	4	ND	ND	ND	ND	ND	2	2	ND
	25' BLS	4	ND	ND	ND	ND	ND	ND	ND	ND
	30' BLS	5	ND	ND	ND	ND	ND	2	2	ND
	1' BLS	3	ND	ND	ND	ND	ND	1	1	ND
B-003BH	5' BLS	3	ND	ND	ND	ND	ND	1	1	ND
	10' BLS	4	ND	ND	ND	ND	ND	2	2	ND
	15' BLS	1	ND	ND	ND	ND	ND	ND	ND	ND

## Field GC Data Summary (Continued)

[illegible]

**Field GC Data Summary (Concluded)**  
**157th ACG, Jefferson Barracks ANG, St. Louis, Missouri**

Location	Sample Interval	Concentration (ppb)							Additional Analytes		
		Benzene	Toluene	Ethylbenzene	m-,p-xylene	o-xylene	DCE	TCE	PCE		
D-001BH (Continued)	25' BLS	ND	ND	ND	ND	ND	ND	1	ND		
D-002BH	10' BLS	ND	ND	ND	ND	ND	ND	ND	2		
	20' BLS	ND	ND	ND	ND	ND	ND	ND	ND		
	21' BLS	ND	1	ND	ND	ND	ND	7	ND		
Drummed Decon Water	12-7-94	2	66	ND	106	ND	ND	ND	ND		
	12-9-94	3	5	ND	83	ND	ND	ND	ND		
	12-12-94	ND	243	ND	43	ND	ND	ND	ND		

ppb - parts per billion.  
' BLS - feet Below Land Surface.  
ppb STD - parts per billion Standard.  
ppm STD - parts per million Standard.  
N/A - Not Applicable.

ND - Not Detected.  
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes.  
DCE - Dichloroethylene.  
TCE - Trichloroethylene.  
PCE - Tetrachloroethylene.

# FIELD GC DATA SUMMARY

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 13 ml/min

INJECTION VOLUME: 100 µl/s  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)						Additional Analytes		
				Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX	DCE	TCE	PCE
1	100	PPB	100	100	100	100	100	100	100	100	100	100
2	100	PPB	GC Exceeded 25 Peaks	100	100	100	100	100	100	100	100	100
3	100	PPB	SAME NOTE AS ABOVE	100	100	100	100	100	100	100	100	100
4	1	PPM	STD	ALL	PARAMETERS	SET TO	AUTO					
5	100	PPB	STD	100	100	(300)	0					
6	100	PPB	STD	1000	1000	(3000)	1000			1000	1000	1000
7	10	PPM	STD	10000	10000	(30000)	30000	10000	No integration	10000	10000	10000
8	AIR	BLANK		ND	ND	ND	ND	ND		ND	ND	ND
9	10	PPM	STD	10000	10000	(30000)	10000			10000	10000	10000
10	AIR	BLANK		ND	ND	(ND)	ND	ND		ND	ND	ND
11	PZ-2	25'	10	ND	ND	ND	ND	ND		ND	ND	ND
12	PZ-2	10'	10	ND	ND	ND	ND	ND		ND	ND	ND
13	PZ-2	1'	10	ND	ND	ND	ND	ND		ND	ND	ND
14	PZ-2	1'	10	ND	ND	ND	ND	ND	521	ND	ND	ND
15	1 PPM	STD		732	605	(720)	ND			826	688	611
16	AIR	BLANK		ND	ND	ND	ND	ND		ND	ND	ND
17	PZ-2	10'	10	ND	ND	ND	ND	ND		ND	ND	ND
18	PZ-3	1.0'	10	ND	ND	ND	ND	ND		ND	ND	ND
19	PZ-3	15'	10	ND	ND	ND	ND	ND		ND	39.5	ND
20	PZ-1	15'	10	44.3	ND	ND	ND	ND		ND	ND	ND

Reshoot

Reintegrated  
No print copy

reintegrated

Calibration Information		Analytes							
		Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	DCE	TCE	PCE
20 ppb	Retention Time	59	108.2	213	213	N/A	24	69.3	148
	Response	59.78	71.34	311.9	311.9	N/A	59.78	6	44.46
ppm	Retention Time	51.8	108.6	216.4	216.4	275.2	23.8	68.6	149
	Response	1.00	1.00	1.00	1.00	1.00	1.000	1.00	1.00
10 ppm	Retention Time	53.2	109.3	217.2	217.2	272.5	24.6	68.8	149
	Response	6.89	7.10	22.5	22.5	8.11	7.67	6.44	7.77

OPERATOR: MARK D. HENSON

DATE: 12-9-94

# FIELD GC DATA SUMMARY

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl/s  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500 secs

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)							Additional Analytes		
				Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Total BTEX		DCE	TCE	PCE
1	106 PPB STD			100	100	100	200	100			100	100	100
2	1 PPM STD			1000	1000	1000	2000	1000			1000	1000	1000
3	10 PPM STD			10000	10000	10000	20000	20000			10000	10000	10000
4	AIR BLANK			18.3	ND	ND	ND	ND			32.3	10.2	ND
5	AIR BLANK			.034	ND	ND	ND	ND			.050	ND	ND
6	P2-1 1.0	10	10	0.31	0.63	ND	ND	ND			ND	0.40	ND
7	P2-1 20	10	10	ND	0.41	ND	ND	ND			ND	0.37	ND
8	D-1 25	10	10	ND	ND	ND	ND	ND			0.18	1.20	ND
9	D-2 20	10	10	ND	0.69	ND	ND	ND			ND	0.33	ND
10	D-001 18.5	10	10	ND	ND	ND	ND	ND			ND	ND	ND
11	100 PPB STD			84.6	57.4	50.4	100	22.1			67.3	69.1	45.0
12	AIR BLANK			ND	2.31	0.97	ND	ND			ND	ND	ND
13	D-1 15'	10	10	0.15	2.41	8.74	15.1	ND			ND	0.39	ND
14	D-2 10'	10	10	0.19	0.48	ND	ND	ND			ND	0.65	2.08
15	C-1 1'	10	10	ND	ND	ND	ND	ND			ND	ND	ND
16	D-2 21'	10	10	ND	1.23	ND	ND	ND			0.52	7.33	ND
17	D-2 15'	10	10	ND	ND	ND	ND	ND			ND	0.64	3.21

R

R = reintegrated

Calibration Information		Analytes							
		Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	DCE	TCE	PCE
100 ppb	Retention Time	55.9	112.4	223	238.6	281.3	26.4	70.6	153.8
	Response	184.5	157.9	68.9	73.5	67.3	248	242.8	163.9
1 ppm	Retention Time	54.6	111.3	223.2	238.8	281.6	24.8	70.8	151.8
	Response	1.361ppm	1.049ppm	1.329ppm	2.640ppm	1.024ppm	1.074ppm	1.157ppm	1.567ppm
10 ppm	Retention Time	55.7	112.5	223	238.4	281.0	25.9	71.4	153.6
	Response	8.459ppm	12.43ppm	12.53ppm	24.1ppm	7.765ppm	6.55ppm	8.377ppm	8.623ppm

OPERATOR: MARK P. HENSON

DATE: 12-11-94

# FIELD GC DATA SUMMARY

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl/s  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500 SECS

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)						Additional Analytes		
				Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Total BTEX	DCE	TCE	PCE
1	100	PPB	STD	100	100	100	200	100		100	100	100
2	1	PPM	STD	1000	1000	1000	2000	1000		1000	1000	1000
3	10	PPM	STD	10000	10000	10000	20000	10000		10000	10000	10000
4	AIR	BLANK		1.33	ND	ND	ND	ND		ND	ND	ND
5	C-2	0.5'	10	3.92	1.22	ND	ND	ND		ND	2.50	10.5
6	C-2	10'	10	22.13	0.54	ND	ND	ND		ND	37.5	32.5
7	C-2	5'	10	1.83	0.39	ND	ND	ND		ND	26.1	54.5
8	C-2	11.5'	10	1.69	0.34	ND	ND	ND		ND	43.4	32.6
9	C-3	0.5'	10	0.65	ND	9.58	ND	ND		ND	ND	ND
10	100	PPB	STD	70.2	57.9	46.0	77.6	39.3		64.8	55.2	35.7
11	C-3	5.0'	10	4.717	0.41	ND	ND	ND		ND	ND	ND
12	AIR	BLANK		1.14	ND	ND	ND	ND		ND	ND	ND
13	C-3	5.0	10	4.03	0.46	ND	ND	ND		ND	1.43	ND
14	C-4	0.5	10	4.27	1.02	ND	ND	ND		ND	1.79	ND
15	C-4	5'	10	4.15	0.68	ND	ND	ND		ND	ND	ND
16	C-5	0.5'	10	4.34	1.42	ND	ND	ND		ND	1.56	ND
17	C-5	5.0	10	4.04	0.69	ND	ND	ND		ND	2.16	ND
18	1 PPM	STD		1000	1000	1000	2000	1000		1000	1000	1000

Calibration Information		Analytes							
		Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	DCE	TCE	PCE
100 ppb	Retention Time	52.2	102.6	210.6	224.6	266.6	23.9	64.2	142.8
	Response	100	100	100	200	100	100	100	100
1 ppm	Retention Time	53	103.6	209	226.8	269	24.5	65.7	144
	Response	987.1	700.2	1.055	2.120	3.299	619.6	621.9	988.6
10 ppm	Retention Time	53.6	104	212.6	226.4	269.3	25.1	66	144
	Response	8.972	15.05	12.71	23.8	5.972	9.505	10.39	9.807

OPERATOR: MARK D. HENSON

DATE: 12-12-94

# FIELD GC DATA SUMMARY

1 of 2

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl/s  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500 secs

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)						Additional Analytes		
				Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Total BTEX	DCE	TCE	PCE
1	100	PPB	STD	100	100	100	200	100		100	100	100
2	1	PPM	STD	1000	1000	1000	2000	1000		1000	1000	1000
3	10	PPM	STD	10000	10000	10000	20000	10000		10000	10000	10000
4	AIR	BLANK		17.1	20.2	14.7	27.9	14.8		45.8	24.5	19.1
5	AIR	BLANK		3.14	ND	ND	ND	ND		ND	1.23	2.39
6	B-1	3.5	10	10.6	5.48	15.5	25.9	21.2		ND	2.67	21.6
7	B-1	2.0	10	3.120	ND	ND	ND	ND		ND	1.67	101
8	B-1	10	10	3.16	0.80	ND	ND	ND		ND	1.56	7.72
9	B-1	15'	10	2.86	0.37	ND	ND	ND		ND	1.63	4.47
10	B-1	20'	10	2.96	0.68	ND	ND	ND		ND	1.57	1.88
11	100	PPB	STD	100	100	100	200	100		100	100	100
12	AIR	BLANK		0.85	ND	ND	ND	ND		ND	ND	ND
13	B-1	24	10	2.97	0.48	ND	ND	ND		ND	1.40	ND
14	B-1	26	10	3.49	0.70	ND	ND	ND		ND	0.74	ND
15	B-1	30	10	3.42	0.55	ND	ND	ND		ND	1.43	ND
16	B-2	0.5	10	3.32	0.62	ND	ND	ND		ND	1.78	ND
17	B-2	5	10	3.17	0.48	ND	ND	ND		ND	1.53	ND
18	100	PPB	STD	100	100	100	200	100		100	100	100
19	AIR	BLANK		1.875	ND	ND	ND	ND		ND	ND	ND
20	B-2	10	10	3.689	0.91	ND	ND	ND		ND	2.22	24.4

Calibration Information		Analytes							
		Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	DCE	TCE	PCE
100 ppb	Retention Time	52.1	102.4	210.2	225.2	267.4	23.2	63.6	143
	Response	145	113.2	61.40	58.89	25.92	138.3	168.9	66.23
1 ppm	Retention Time	52.7	107.2	211.2	226	264.8	24.2	65.4	143.4
	Response	1.804	1.733	2.013	3.538	3.136	1.727	1.736	2.067
10 ppm	Retention Time	53.8	104.4	213.2	227.4	269.6	25	65.6	143.7
	Response	7.166	11.50	14.49	25.18	6.539	7.971	5.878	17.01

OPERATOR: MARK D. HENSON

DATE: Dec 12, 1994

# FIELD GC DATA SUMMARY

2 of 2

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500 secs

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)							Additional Analytes		
				Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Total BTEX		DCE	TCE	PCE
21	B-2	15'	10	3.73	0.67	ND	ND	ND			ND	2.14	8.19
22	B-2	20'	10	3.74	0.64	ND	ND	ND			ND	2.29	ND
23	B-2	25'	10	3.43	ND	ND	ND	ND			ND	0.91	ND
24	B-3	1.0	10	3.43	ND	ND	ND	ND			ND	1.36	ND
25	100	PPB	STD	97.3	99.0	88.3	170.	92.8			103	100	94
26	AIR	BLANK		1.18	ND	ND	ND	ND			ND	ND	ND
27	B-3	5'	10	3.45	ND	ND	ND	ND			ND	1.13	ND
28	B-3	10'	10	3.79	0.46	ND	ND	ND			ND	2.08	ND
29	B-3	15'	10	1.22	ND	ND	ND	ND			ND	ND	ND
30	B-3	20'	10	30.7	ND	ND	ND	ND			ND	0.70	ND
31	B-3	25'	10	2.57	ND	ND	ND	ND			ND	ND	ND
32	100	PPB	STD	100	100	100	200	100			100	100	100
33	AIR	BLANK		1.25	ND	ND	ND	ND			ND	ND	ND
34	B-2	20'	10	4.737	0.79	ND	ND	ND			ND	2.09	ND

R = reintegrated

Calibration Information		Analytes									
		Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene					
100 ppb	Retention Time										
	Response										
1 ppm	Retention Time										
	Response										
10 ppm	Retention Time										
	Response										

OPERATOR: MARK D. HENSON

DATE: Dec 13, 1994

# FIELD GC DATA SUMMARY

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 12 ml/min.

INJECTION VOLUME: 100  $\mu$ l  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)								
				Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX	Additional Analytes		
										DCE	TCE	PCE
21	A-1	10'	10	2.36	0.55	6.0	ND	ND		ND	ND	ND
22	A-1	1.0'	10	0.80	ND	ND	ND	ND		ND	ND	ND
23	A-2	5'	10	0.44	ND	ND	ND	ND		ND	ND	ND
24	A-2	10'	10	2.55	ND	ND	ND	ND		ND	0.68	ND
25	A-2	15'	10	0.80	ND	ND	ND	ND		ND	ND	ND
26	100	PPB	STD	87.0	85	92	187	87		87	91	56
27	AIR	BLANK		0.70	ND	ND	ND	ND		ND	ND	ND
28	A-2	20'	10	0.74	ND	ND	ND	ND		ND	ND	ND
29	A-3	4.0	10	0.72	ND	ND	ND	ND		ND	ND	ND
30	DECON	H <sub>2</sub> O	10mls	0.64	ND	ND	ND	ND		ND	ND	ND
31	A-3	10'	10	0.64	ND	ND	ND	ND		ND	ND	ND
32	A-3	15'	10	0.70	ND	ND	ND	ND		ND	ND	ND
33	100	PPB	STD	100	100	100	200	100		100	100	100
34	AIR	BLANK		0.797	ND	ND	ND	ND		ND	ND	ND
35	DECON	12-4-94 WATER #32	*2.94 10mls	4.82	ND	83.4	ND	ND		ND	ND	ND
36	DECON	12-12-94 WATER #26	*0.79 10mls	243	ND	43.0	ND	ND		ND	ND	ND
37	DECON	12-7-94 WATER #29	*1.73 10mls	66.0	ND	106	ND	ND		ND	ND	ND

Calibration Information		Analytes						
		Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene		
100 ppb	Retention Time							
	Response							
1 ppm	Retention Time							
	Response							
10 ppm	Retention Time							
	Response							

OPERATOR: MARK HENSON

DATE: 12-14-94

## FIELD GC DATA SUMMARY

1 OF 2

SITE: JEFFERSON BARRACKS  
 GAIN: 1000  
 CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl  
 GC OVEN TEMP: 40°C  
 ANALYSIS TIME: 500

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)								
				Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total BTEX	Additional Analytes		
										DCE	TCE	PCE
1	100	PPB	STD	100	100	100	200			100	100	100
2	1	PPM	STD	1000	1000	1000	2000	1000		1000	1000	1000
3	10	PPM	STD	10000	10000	10000	20000	10000		10000	10000	10000
4	AIR	BLANK		7.44	13.64	138	270	31.2		0.29	6.01	14.7
5	AIR	BLANK		2.01	ND	ND	ND	ND		14.4	ND	2.04
6	AIR	BLANK		2.11	ND	ND	ND	ND		ND	ND	2.11
7	B-4	0.5'	10	7.75	4.10	6.06	ND	ND		ND	3.91	4.31
8	B-4	5'	10	5.94	1.09	ND	ND	ND		ND	2.11	ND
9	B-4	10'	10	4.78	22.6	37.6	24.9	ND		0.48	47.0	12.7
10	B-4	15'	10	13.6	0.85	ND	ND	ND		ND	1.63	ND
11	B-4	25'	10	13.7	0.94	ND	ND	ND		ND	ND	ND
12	100	PPB	STD	142	135	132	244	250		154	138	119
13	B-4	20'	10	0.71	ND	ND	ND	ND		ND	ND	ND
14	AIR	BLANK		0.62	ND	ND	ND	ND		ND	ND	ND
15	B-4	20'	10	0.69	ND	ND	ND	ND		ND	ND	ND
16	A-1	20'	10	0.61	ND	ND	ND	ND		ND	ND	ND
17	A-1	3.5'	10	0.65	ND	ND	ND	ND		ND	ND	ND
18	A-1	15'	10	0.62	ND	ND	ND	ND		ND	ND	ND
19	100	PPB	STD	74.0	73.4	52.2	97.3	48.1		89.9	70.9	62.6
20	AIR	BLANK		2.461	ND	ND	ND	ND		ND	ND	ND

R = reintegrated

Calibration Information		Analytes							
		Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	DCE	TCE	PCE
100 ppb	Retention Time	51.3	101.7	187.4	209.4	ND	23.1	64.4	142.2
	Response	68.88	42.07	9.903	21.97	ND	71.52	97.82	58.45
1 ppm	Retention Time	53.2	104.4	213.4	213.4	ND (270)	24.5	66.1	145
	Response	3.736	4.490	782.5	9.470	ND (706)	3.355	2.640	4.682
10 ppm	Retention Time	54.2	104.9	214.2	228.6	271.2	25.2	66.4	144.8
	Response	7.068	10.60	12.42	25.52	6.733	6.537	5.932	6.655

OPERATOR: MARK D. HENSENDATE: 12-14-94

## FIELD GC DATA SUMMARY

SITE: JEFFERSON BARRACKS

**GAIN:** 1000

CARRIER GAS FLOW: 1 ml/min

INJECTION VOLUME: 100  $\mu$ /s

GC OVEN TEMP: 40°C

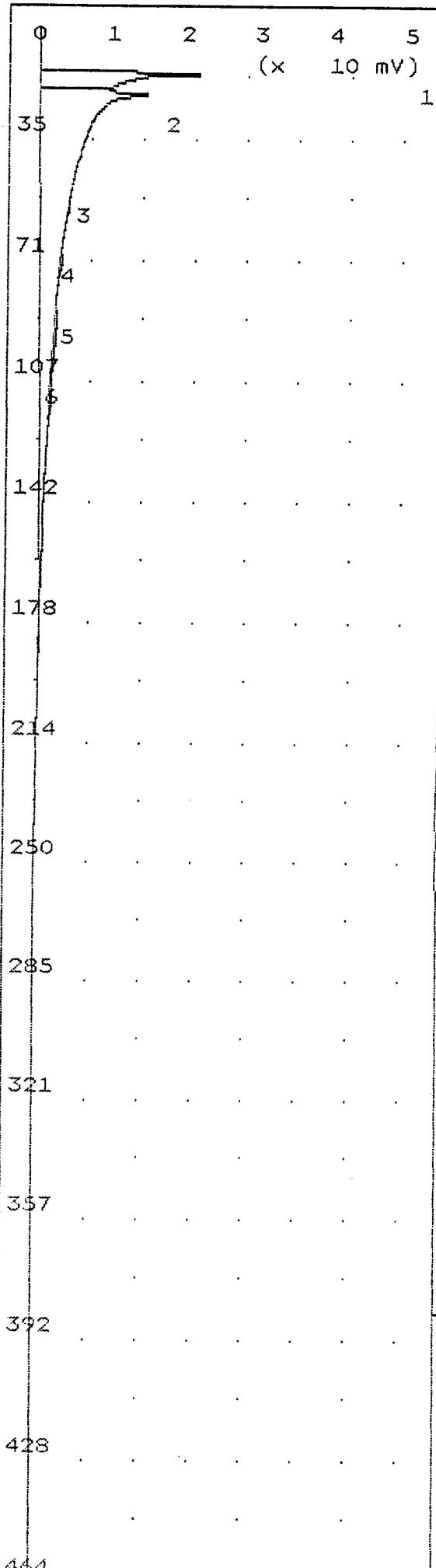
ANALYSIS TIME: 600 secs

[illegible][illegible]

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

Analysis #6 10S+ GC Function Analysis Report

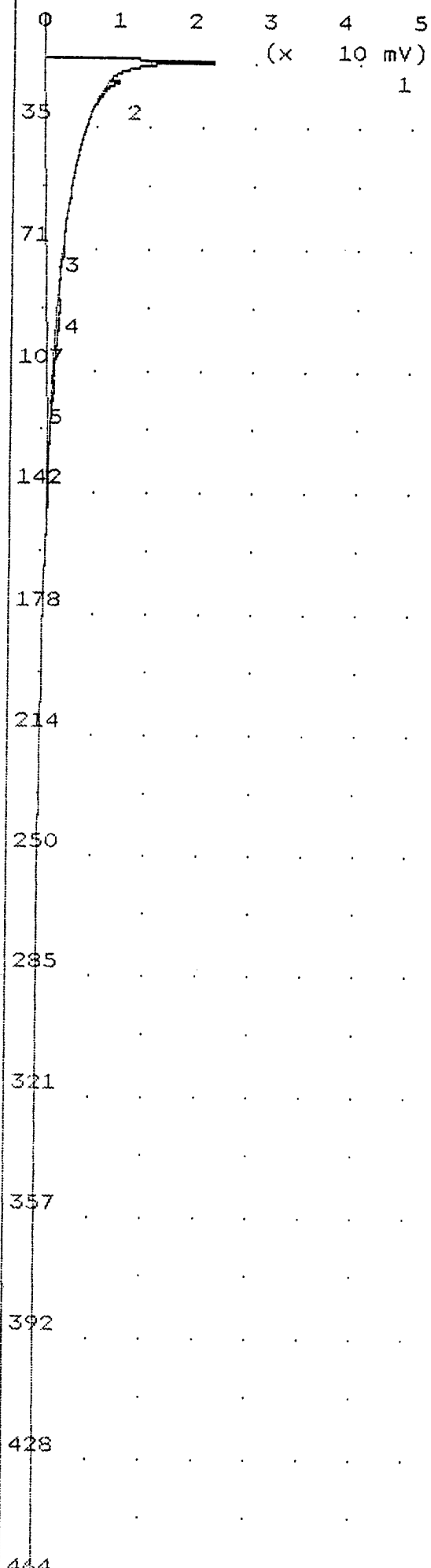


Time Printed: Dec 11,94 04:00  
Sample Time: Dec 11,94 03:52  
Method  
Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 30 C  
Max Gain 1000  
Analysis Time 500.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	82.01 mVS	13.8
2	Unknown	443.2 mVS	20.4
3	benzene	0.105 ppb	53.0
4	tce	0.399 ppb	69.6
5	Unknown	4.892 mVS	84.5
6	toluene	0.629 ppb	109.8

Notes  
Jefferson Barracks, Missouri  
Mark Henson  
pz-1  
1.0' bls

0	4	8	12	16	20	Time Printed: Dec 9,94 17:47
			(x 1000 uV)			Sample Time: Dec 9,94 17:37
						Method
35						Slope Up 24.00 mV/Sec
						Slope Down 72.00 mV/Sec
			1			Min Area 1.000 mVSec
			2			Min Height 1.000 mV
71						Analysis Delay 0.0 sec
						Window Percent 10.0 %
						Det Flow 13 ml/min
						B/F Flow 13 ml/min
107						Aux Flow 0 ml/min
						Oven Temp 40 C
						Amb Temp 32 C
						Max Gain 1000
142						Analysis Time 500.0 sec
						Peak Report
						Pk Compound Name Area/Conc R.T.
						1 Unknown 38.15 mVS 39.4
178						2 benzene 44.25 ppb 49.9
214						
250						
285						
321						
357						
392						Notes
						Mark Henson
						Jefferson Barracks, Missouri
428						pz-1
						15' bls
444						



Time Printed: Dec 11,94 04:10

Sample Time: Dec 11,94 04:02

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

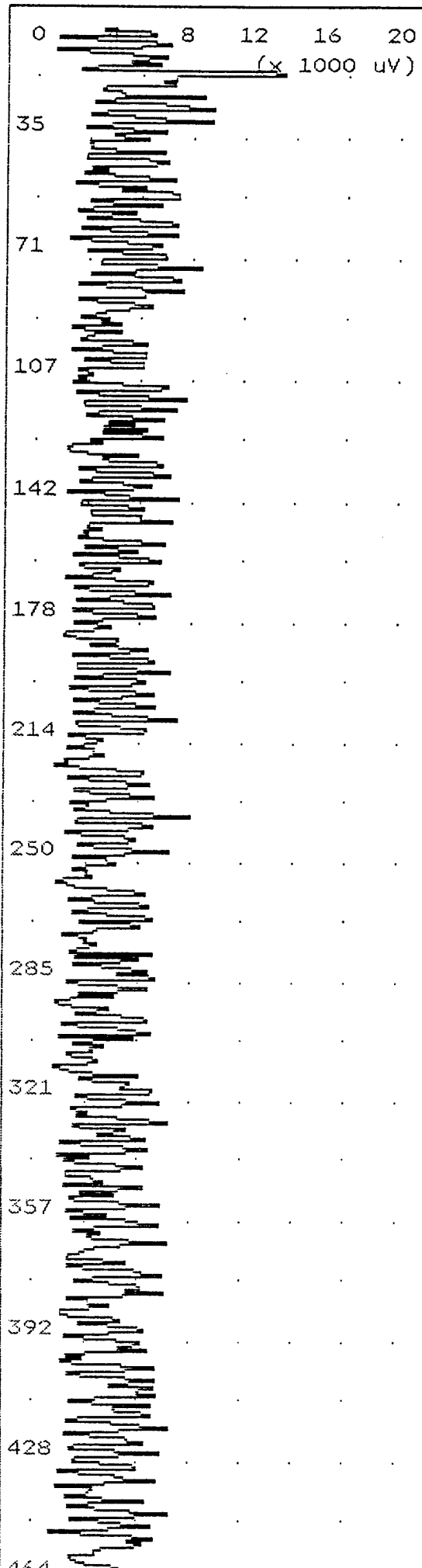
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	419.0 mVS	13.8
2	Unknown	2.315 mVS	20.4
3	tce	0.372 ppb	69.3
4	Unknown	4.660 mVS	84.4
5	toluene	0.412 ppb	110.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

pz-1  
20' bls

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Dec 9,94 16:17

Sample Time: Dec 9,94 16:08

Method

Slope Up 109.0 mV/Sec  
 Slope Down 327.0 mV/Sec  
 Min Area 1.000 mVSec  
 Min Height 1.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 13 ml/min  
 B/F Flow 13 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

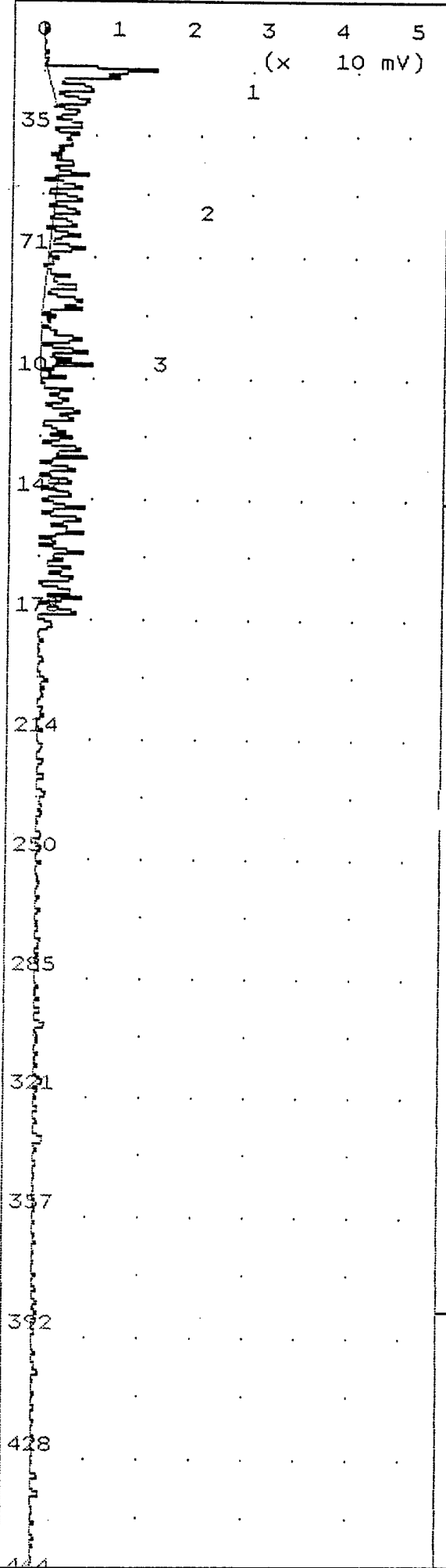
PK	Compound Name	Area/Conc	R.T.
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Notes

Mark Henson  
 Jefferson Barracks, Missouri

pz-2  
 1' bls

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Dec 9,94 16:07  
 Sample Time: Dec 9,94 15:58  
 Method

Slope Up 15.50 mV/Sec  
 Slope Down 46.50 mV/Sec  
 Min Area 1.000 mVSec  
 Min Height 1.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 13 ml/min  
 B/F Flow 13 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 33 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

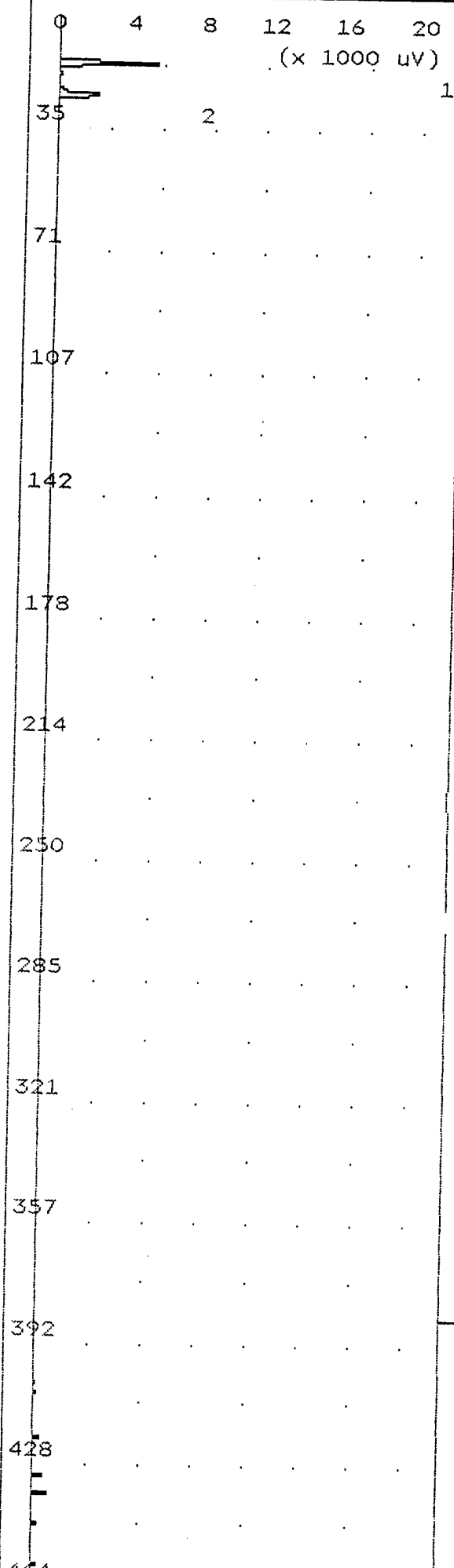
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	65.27 mVS	15.0
2	benzene	71.45 ppb	51.8
3	toluene	85.78 ppb	100.8

Notes

Mark Henson  
 Jefferson Barracks, Missouri  
  
 pz-2  
 10' bls

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Dec 9,94 15:56  
 Sample Time: Dec 9,94 15:48  
 Method

Slope Up 18.50 mV/Sec  
 Slope Down 55.50 mV/Sec  
 Min Area 1.000 mVSec  
 Min Height 1.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 13 ml/min  
 B/F Flow 13 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 33 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

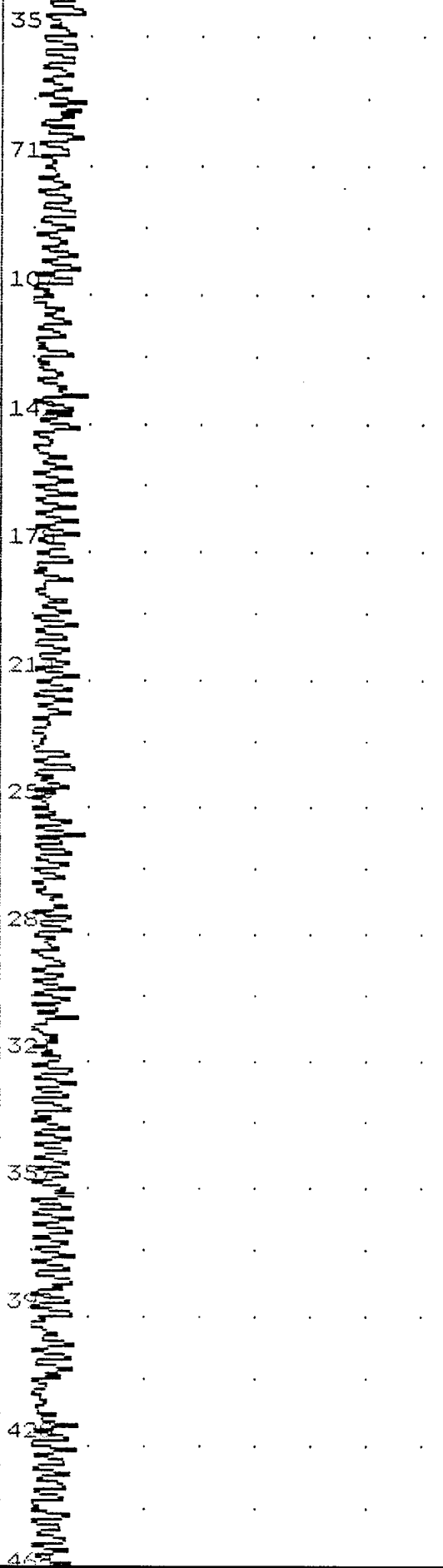
PK	Compound Name	Area/Conc	R.T.
1	Unknown	19.76 mVS	14.8
2	Unknown	12.36 mVS	23.3

Notes

Mark Henson  
 Jefferson Barracks, Missouri

pz-2  
 25'

1 2 3 4 5  
(x 10 mV)  
1



Time Printed: Dec 9,94 17:13

Sample Time: Dec 9,94 17:05

## Method

Slope Up 54.00 mV/Sec  
Slope Down 162.0 mV/Sec  
Min Area 1.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

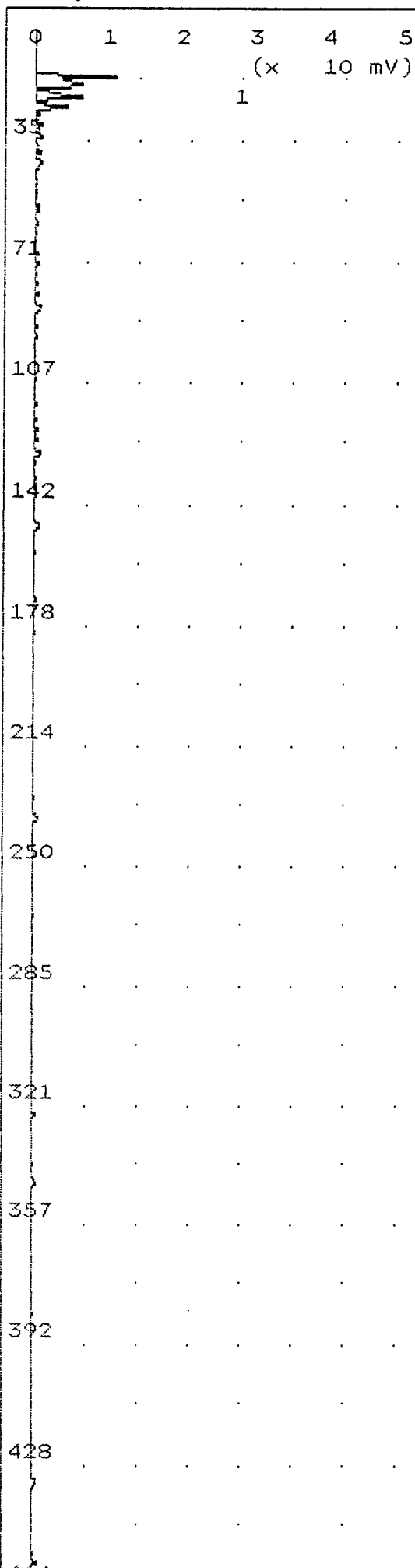
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	50.99 mVS	14.1

## Notes

Mark Henson  
Jefferson Barracks, Missouri

pz-3  
1.0' bls



Time Printed: Dec 9,94 17:24

Sample Time: Dec 9,94 17:15

## Method

Slope Up 13.00 mV/Sec  
Slope Down 39.00 mV/Sec  
Min Area 1.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
S/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

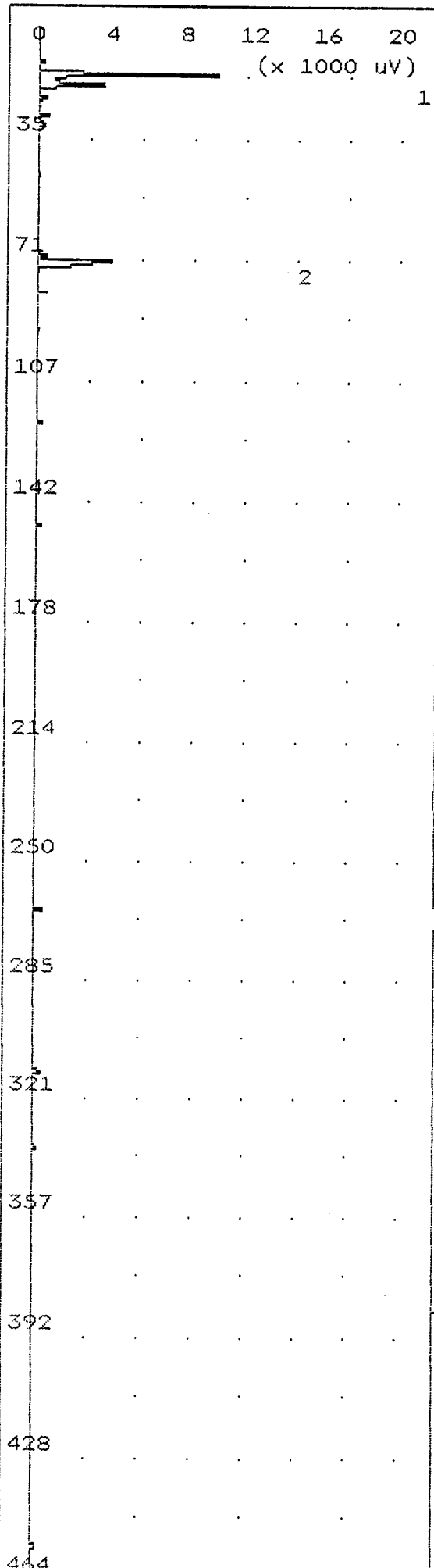
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	45.71 mVS	14.4

## Notes

Mark Henson  
Jefferson Barracks, Missouri

pz-3  
10' bls

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Dec 9,94 17:34

Sample Time: Dec 9,94 17:25

Method

Slope Up 10.50 mV/Sec  
 Slope Down 31.50 mV/Sec  
 Min Area 1.000 mVSec  
 Min Height 1.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 13 ml/min  
 B/F Flow 13 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

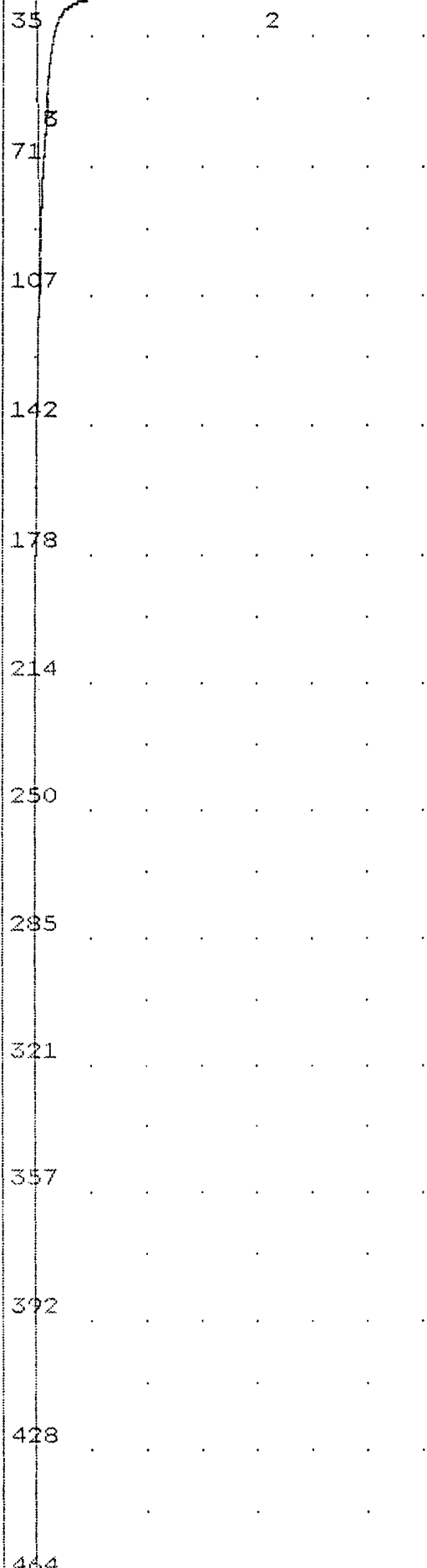
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	31.98 mVS	14.0
2	tce	39.53 ppb	69.3

Notes

Mark Henson  
 Jefferson Barracks, Missouri

pz-3  
 15' bls

0 2 4 6 8 10  
(x 10 mV)



Time Printed: Dec 14,94 14:34

Sample Time: Dec 14,94 14:26

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

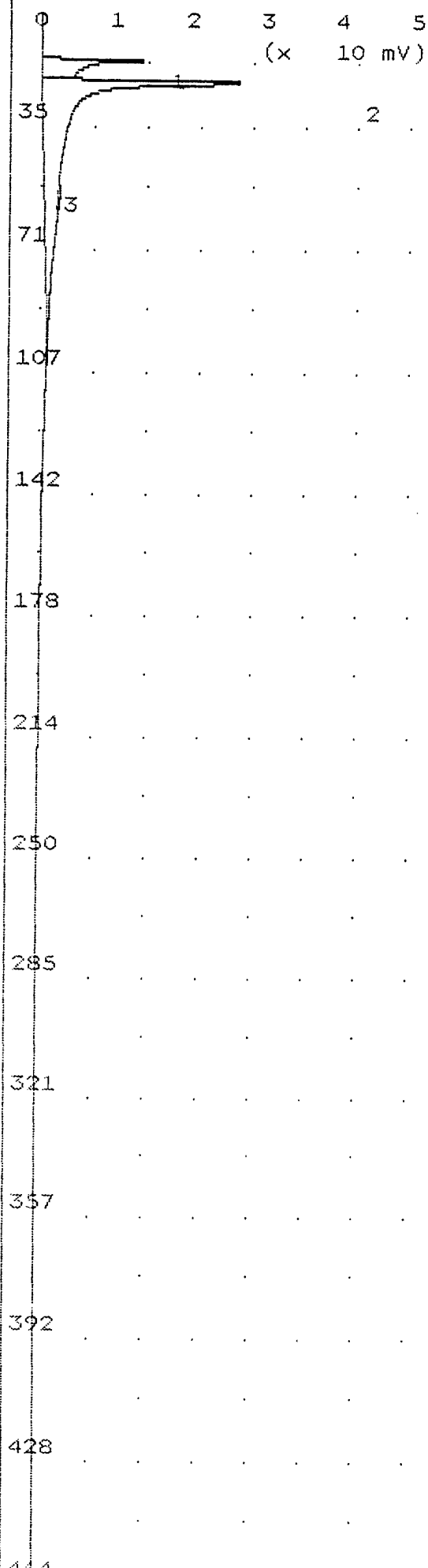
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	46.90 mVS	14.4
2	Unknown	299.0 mVS	20.8
3	benzene	0.792 ppb	51.1

## Notes

Jeffersn Barracks  
Mark Henson

A-1  
1.0' bls

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 12:54

Sample Time: Dec 14,94 12:46

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 31 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

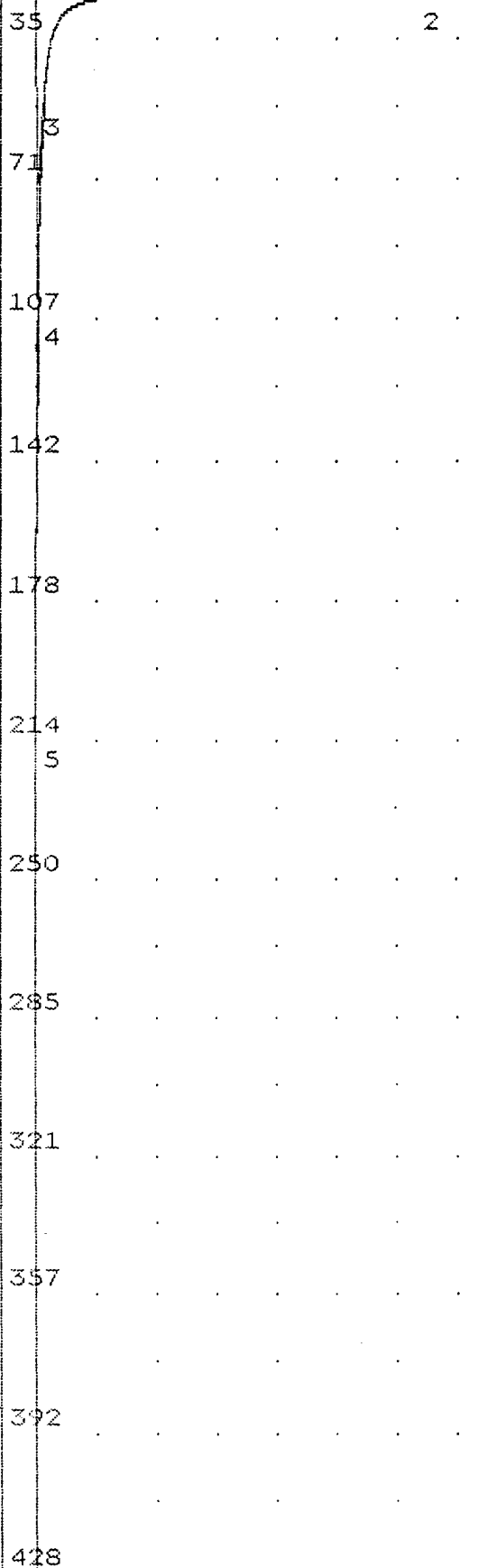
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	38.58 mVS	14.2
2	Unknown	212.3 mVS	20.2
3	benzene	0.648 ppb	52.8

Notes

Jefferson Barracks  
 Mark Henson

A-1  
 3.5' bls

0 4 8 12 16 20  
 (x 10 mV)



Time Printed: Dec 14,94 13:59

Sample Time: Dec 14,94 13:50

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 31 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	45.85 mVS	14.0
2	Unknown	640.4 mVS	20.4
3	benzene	2.359 ppb	50.8
4	toluene	0.545 ppb	104.8
5	ethylbenzene	5.967 ppb	217.0

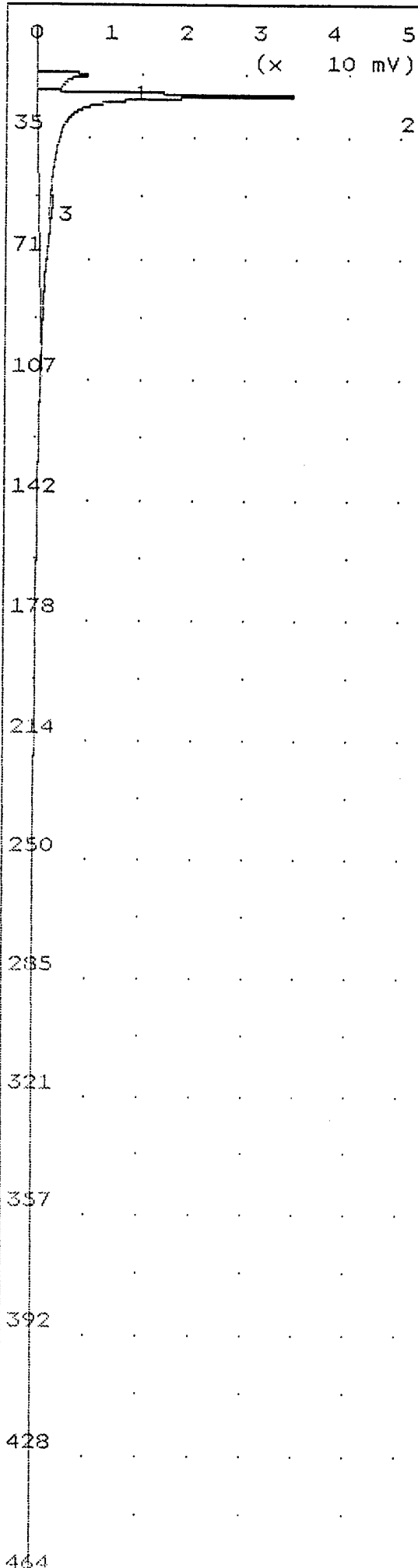
## Notes

Jefferson Barracks  
 Mark Henson

~~100 ppb std~~

A-1  
 10' bis

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 12:34

Sample Time: Dec 14,94 12:26

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

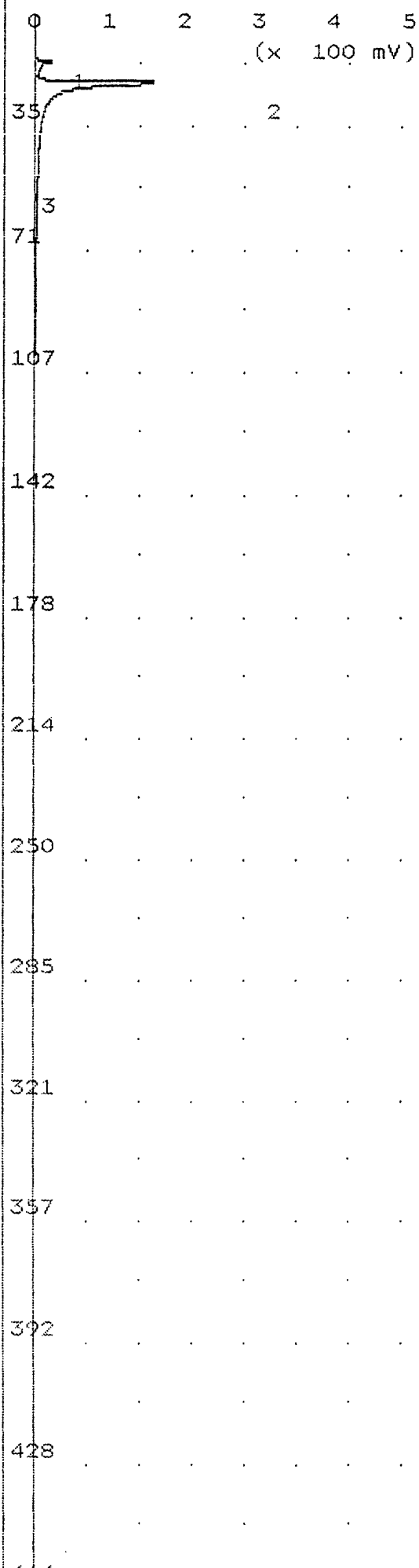
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.03 mVS	14.4
2	Unknown	202.9 mVS	20.6
3	benzene	0.605 ppb	51.0

Notes

Jeffersn Barracks  
 Mark Henson

A-1  
 20' bls



Time Printed: Dec 14,94 14:55

Sample Time: Dec 14,94 14:38

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

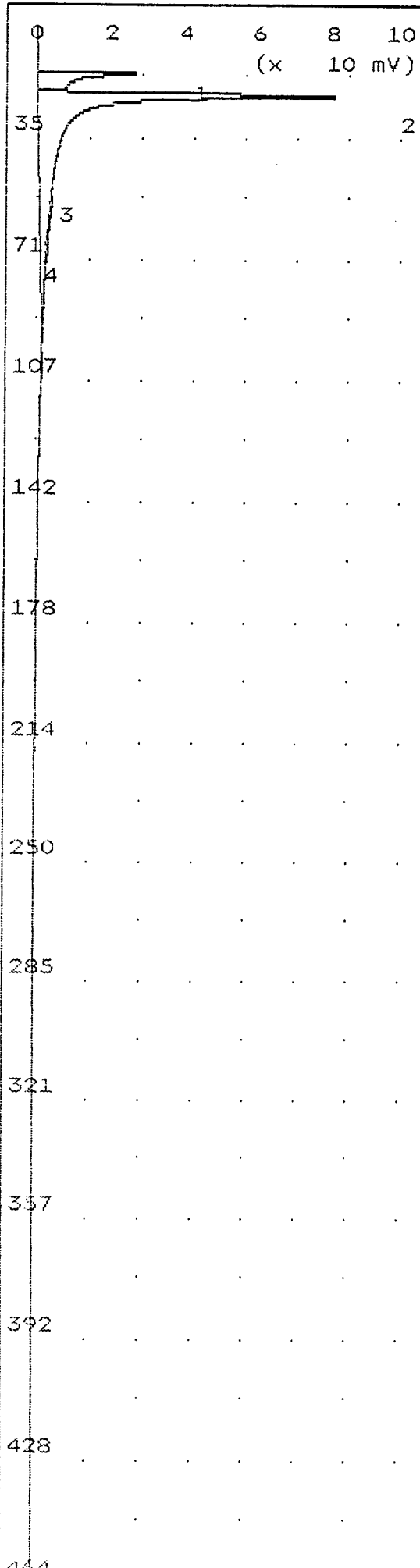
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	57.41 mVS	14.1
2	Unknown	781.1 mVS	20.5
3	benzene	0.444 ppb	50.9

## Notes

Jeffersn Barracks  
Mark Henson

A-2  
5' bls

Analysis #24 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 15:06

Sample Time: Dec 14,94 14:57

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	72.37 mVS	14.2
2	Unknown	435.2 mVS	20.8
3	benzene	2.547 ppb	50.9
4	tce	0.667 ppb	66.4

Notes

Jeffersn Barracks  
 Mark Henson

A-2  
 10' bls

0 1 2 3 4 5  
(x 10 mV)  
1

35 2

71 3

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 14,94 15:19

Sample Time: Dec 14,94 15:10

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	46.11 mVS	14.4
2	Unknown	206.2 mVS	20.6
3	benzene	0.799 ppb	51.3

Notes

Jefferson Barracks  
Mark Henson

A-2  
15' bls

0 1 2 3 4 5  
(x 10 mV)

35 1 2

71 3

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 14,94 15:58

Sample Time: Dec 14,94 15:50

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	55.48 mVS	14.2
2	Unknown	288.3 mVS	20.5
3	benzene	0.735 ppb	51.2

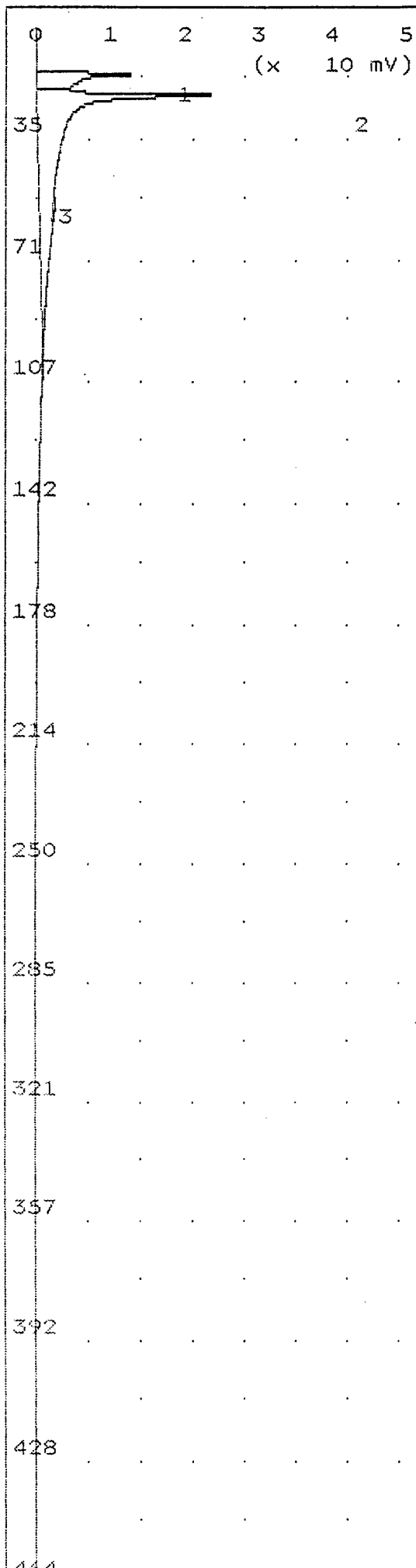
## Notes

Jeffersn Barracks

Mark Henson

A-2

20' bls



Time Printed: Dec 14,94 16:11

Sample Time: Dec 14,94 16:03

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

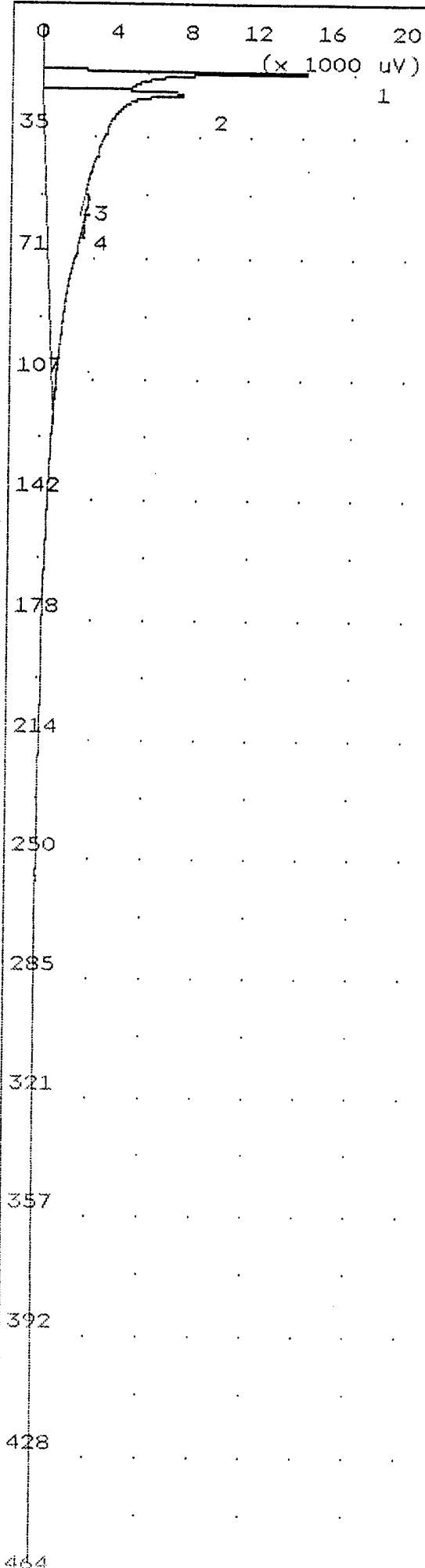
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	40.27 mVS	14.0
2	Unknown	194.1 mVS	20.2
3	benzene	0.721 ppb	50.9

## Notes

Jefferson Barracks  
Mark HensonA-3  
4' bls

Analysis #31 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 16:36

Sample Time: Dec 14,94 16:28

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

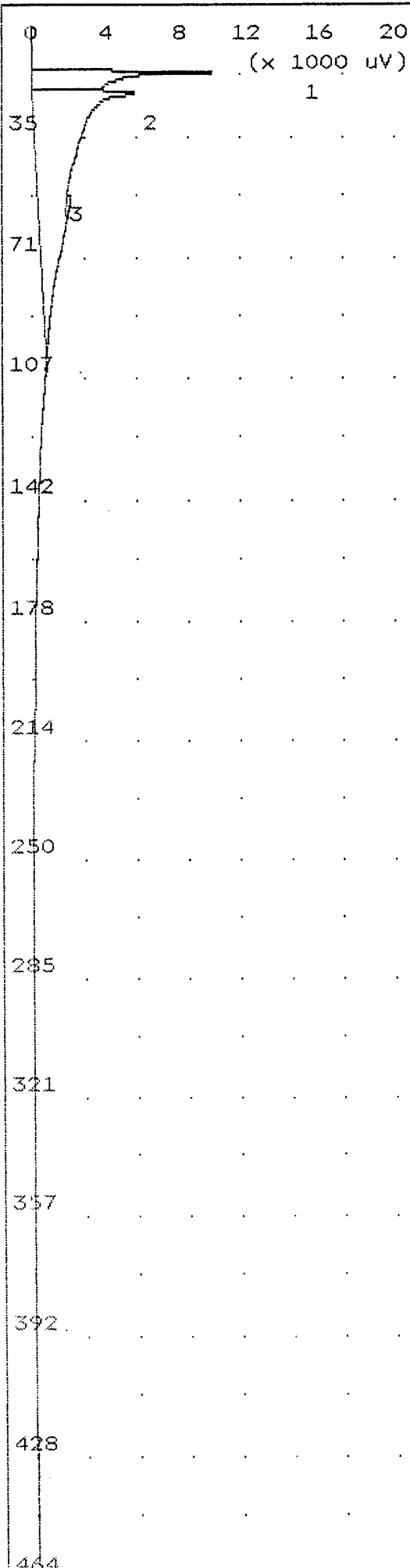
PK	Compound Name	Area/Conc	R.T.
1	Unknown	42.90 mVS	14.2
2	Unknown	185.6 mVS	20.7
3	Unknown	0.122 mVS	51.1
4	benzene	0.649 ppb	52.8

Notes

Jeffersn Barracks  
 Mark Henson

A-3  
 10<sup>3</sup> bls

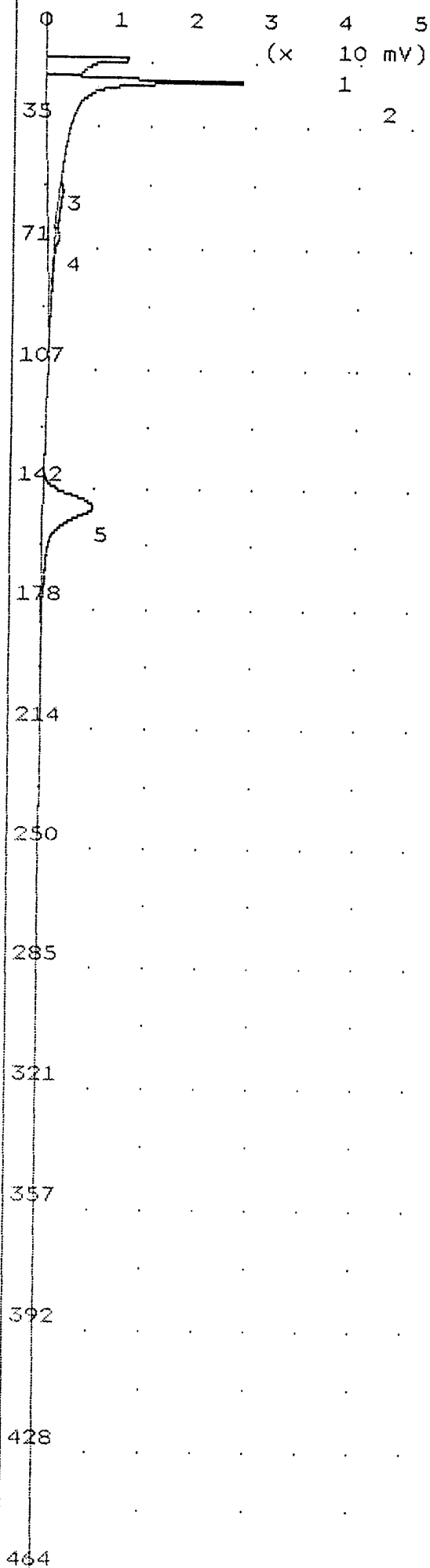
Analysis #32 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 16:47  
 Sample Time: Dec 14,94 16:38  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	33.76 mVS	13.8
2	Unknown	136.8 mVS	20.5
3	benzene	0.703 ppb	51.8

Notes  
 Jeffersn Barracks  
 Mark Henson  
 A-3  
 15' bls



Time Printed: Dec 13,94 09:44

Sample Time: Dec 13,94 09:36

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	42.80 mVS	13.9
2	Unknown	195.4 mVS	20.0
3	benzene	3.120 ppb	52.7
4	tce	1.672 ppb	65.7
5	pce	100.8 ppb	146.0

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-1  
2' bls

0 2 4 6 8 10  
(x 10 mV)

35 2

71 4

107 5

142 6

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 10:21

Sample Time: Dec 13,94 10:13

#### Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 31 C

Max Gain 1000

Analysis Time 500.0 sec

#### Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	39.29 mVS	13.8
2	Unknown	224.3 mVS	19.9
3	benzene	3.156 ppb	52.4
4	tce	1.570 ppb	65.4
5	toluene	0.799 ppb	103.4
6	pce	7.723 ppb	145.2

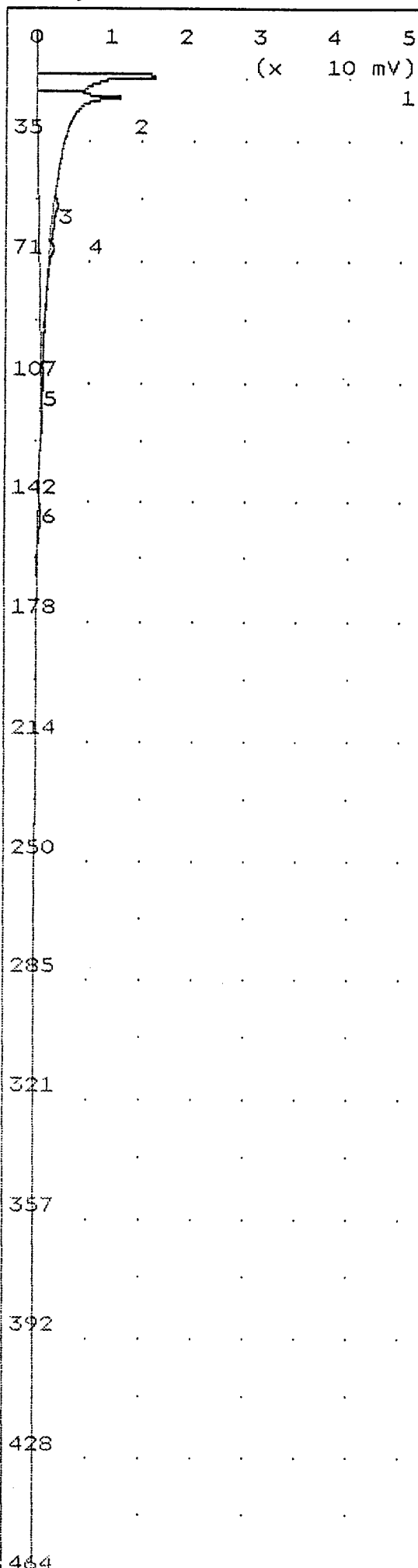
#### Notes

Jefferson Barracks, Missouri

Mark Henson

B-1

10<sup>3</sup> bls



Time Printed: Dec 13,94 10:31

Sample Time: Dec 13,94 10:23

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	60.77 mVS	13.7
2	Unknown	214.2 mVS	20.3
3	benzene	2.862 ppb	52.8
4	tce	1.633 ppb	65.4
5	toluene	0.765 ppb	103.8
6	pce	4.468 ppb	145.0

## Notes

Jefferson Barracks, Missouri  
 Mark Henson

B-1  
 15' bls

0 1 2 3 4 5  
(x 10 mV)  
1

35 2

71 3

107 4

142 5

178 6

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 10:43

Sample Time: Dec 13,94 10:35

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

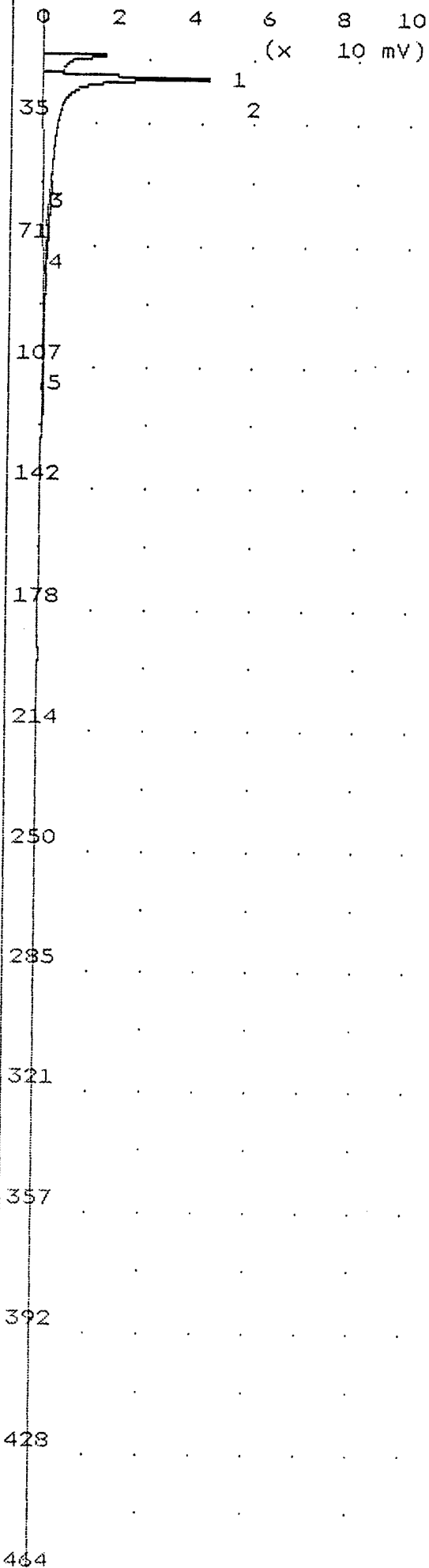
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	56.50 mVS	13.6
2	Unknown	210.0 mVS	20.2
3	benzene	2.963 ppb	52.2
4	tce	1.566 ppb	65.3
5	toluene	0.683 ppb	103.3
6	pce	1.877 ppb	144.6

Notes

Jefferson Barracks, Missouri  
Mark Henson

B-1  
20' bls

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Dec 13,94 11:25

Sample Time: Dec 13,94 11:16

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	51.79 mVS	13.7
2	Unknown	288.3 mVS	20.2
3	benzene	2.970 ppb	52.1
4	tce	1.395 ppb	66.0
5	toluene	0.479 ppb	104.2

Notes

Jefferson Barracks, Missouri  
 Mark Henson

b-1  
 24 bls

0 4 8 12 16 20  
(x 10 mV)

35 2 3

71 4 5

107 6

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 11:55

Sample Time: Dec 13,94 11:46

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

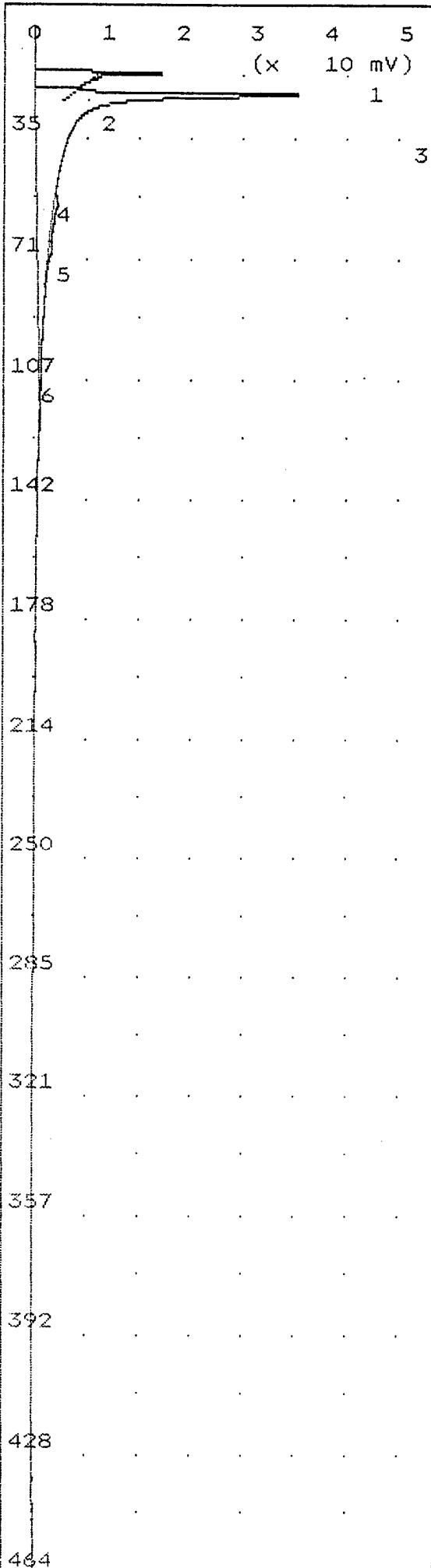
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.771 mVS	13.9
2	Unknown	13.34 mVS	15.4
3	Unknown	461.5 mVS	20.3
4	benzene	3.490 ppb	52.4
5	tce	0.736 ppb	65.4
6	toluene	0.696 ppb	104.5

## Notes

Jefferson Barracks, Missouri  
Mark Henson

b-1  
26' bls

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Dec 13,94 12:05  
 Sample Time: Dec 13,94 11:56  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	53.65 mVS	14.0
2	Unknown	0.569 mVS	15.6
3	Unknown	290.8 mVS	20.1
4	benzene	3.415 ppb	52.9
5	tce	1.432 ppb	66.0
6	toluene	0.547 ppb	104.0

Notes  
 Jefferson Barracks, Missouri  
 Mark Henson

b-1  
 30' bls

0 2 4 6 8 10  
(x 10 mV)

35 2

71 4

107 5

142

178

6

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 14:20

Sample Time: Dec 13,94 14:11

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

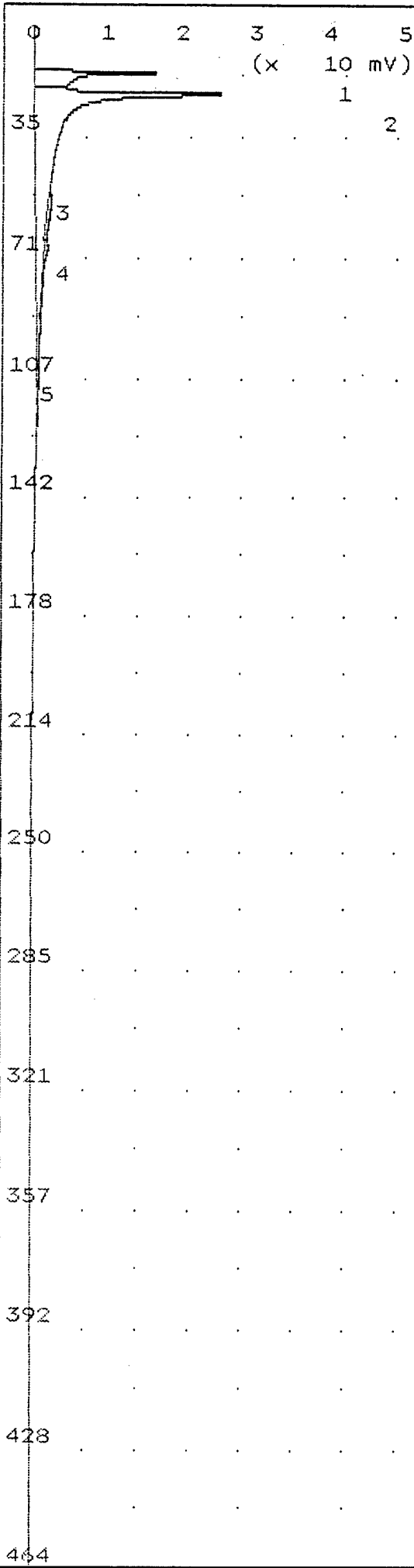
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	61.19 mVS	13.8
2	Unknown	271.5 mVS	20.1
3	benzene	3.319 ppb	52.6
4	tce	1.781 ppb	66.2
5	toluene	0.620 ppb	104.8
6	Unknown	1.146 mVS	190.0

Notes

Jefferson Barracks, Missouri  
Mark Henson

B-X2  
0.5' bls

Analysis #17 10S+ GC Function Analysis Report

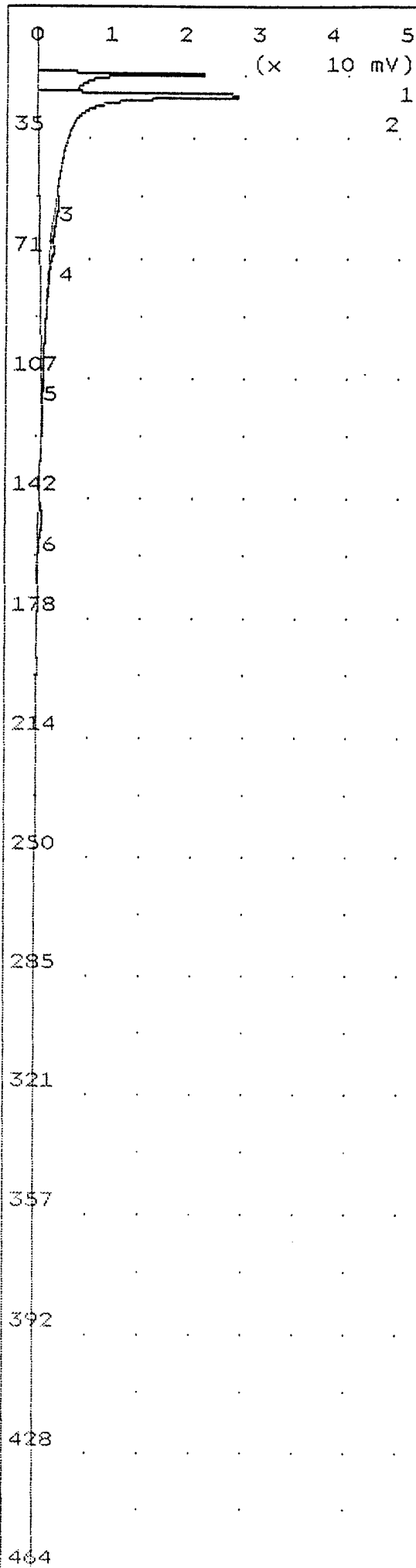


Time Printed: Dec 13,94 14:31  
 Sample Time: Dec 13,94 14:23  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	42.98 mVS	14.1
2	Unknown	222.8 mVS	20.2
3	benzene	3.166 ppb	53.2
4	tce	1.531 ppb	66.2
5	toluene	0.484 ppb	104.6

Notes  
 Jefferson Barracks, Missouri  
 Mark Henson

B-12  
 5' bls



Time Printed: Dec 13,94 15:06

Sample Time: Dec 13,94 14:58

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

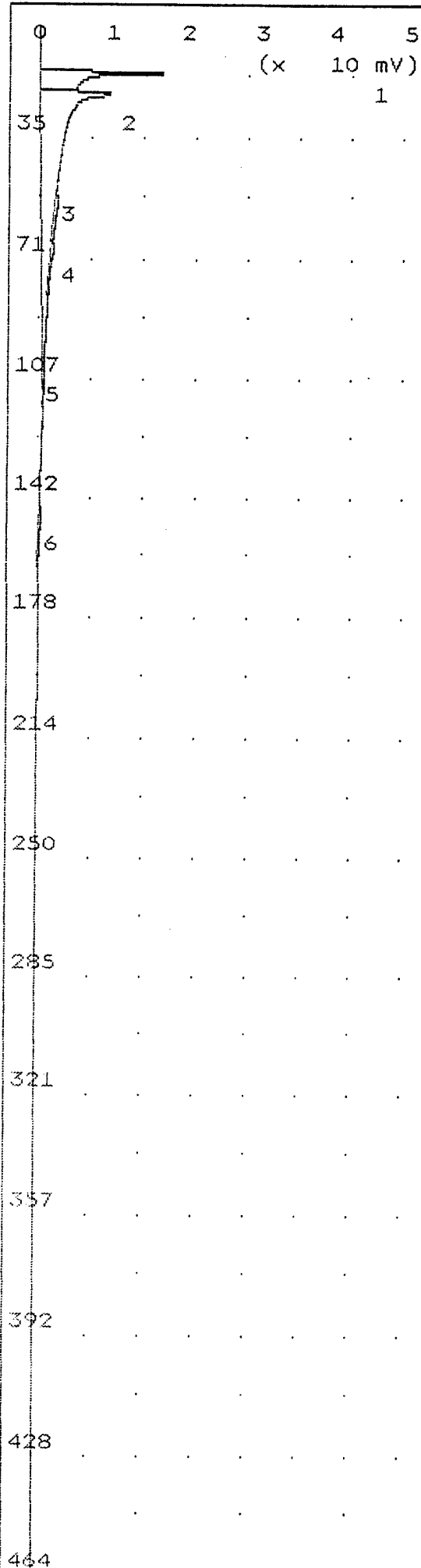
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	53.93 mVS	14.0
2	Unknown	268.6 mVS	20.3
3	benzene	3.689 ppb	53.0
4	tce	2.219 ppb	66.1
5	toluene	0.911 ppb	105.0
6	pce	24.35 ppb	147.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-2  
10' bls



Time Printed: Dec 13, 94 15:32

Sample Time: Dec 13, 94 15:23

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	48.12 mVS	14.0
2	Unknown	193.4 mVS	20.6
3	benzene	3.734 ppb	53.1
4	tce	2.141 ppb	66.5
5	toluene	0.667 ppb	104.5
6	pce	8.199 ppb	146.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-2  
15' bls

0 1 2 3 4 5  
(x 10 mV)  
1

35 2

71 3

4

107 5

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 15:43

Sample Time: Dec 13,94 15:35

#### Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

S/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

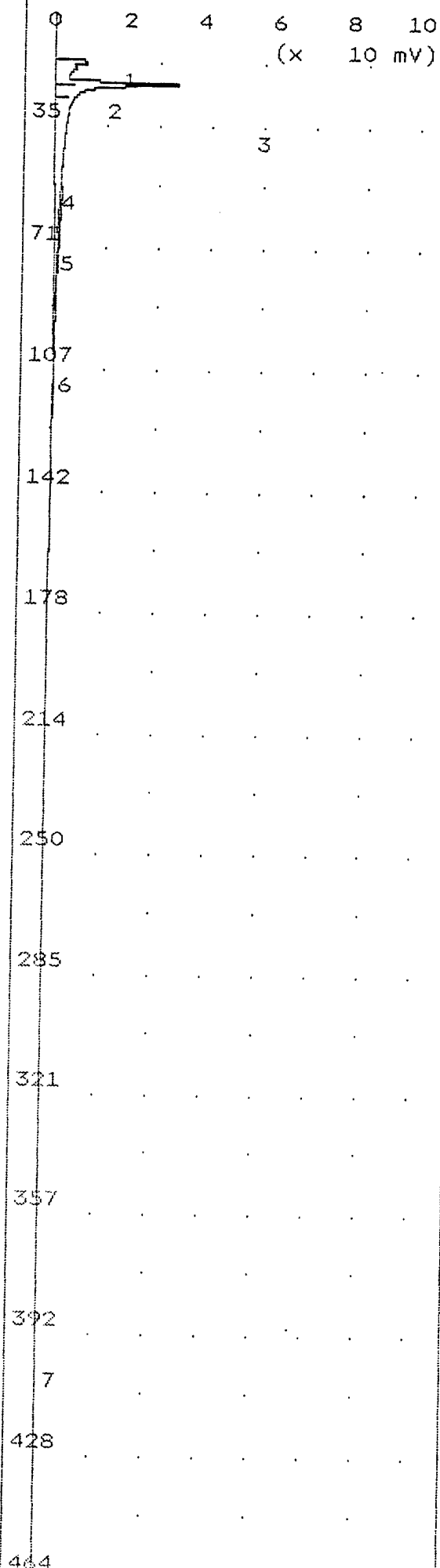
#### Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	239.8 mVS	13.8
2	Unknown	6.695 mVS	20.5
3	benzene	3.741 ppb	53.2
4	tce	2.289 ppb	66.2
5	toluene	0.640 ppb	105.3

#### Notes

Jefferson Barracks, Missouri  
Mark Henson

B-2  
20' bls



Time Printed: Dec 13,94 18:18

Sample Time: Dec 13,94 18:09

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	16.02 mVS	14.6
2	Unknown	18.23 mVS	16.8
3	Unknown	208.5 mVS	20.8
4	benzene	4.737 ppb	53.8
5	tce	2.086 ppb	66.9
6	toluene	0.785 ppb	105.8
7	Unknown	4.823 mVS	404.0

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-2  
30' bls

0 4 8 12 16 20  
(x 1000 uV)

35 1  
2

71 3

107 4

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 16:08

Sample Time: Dec 13,94 16:00

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

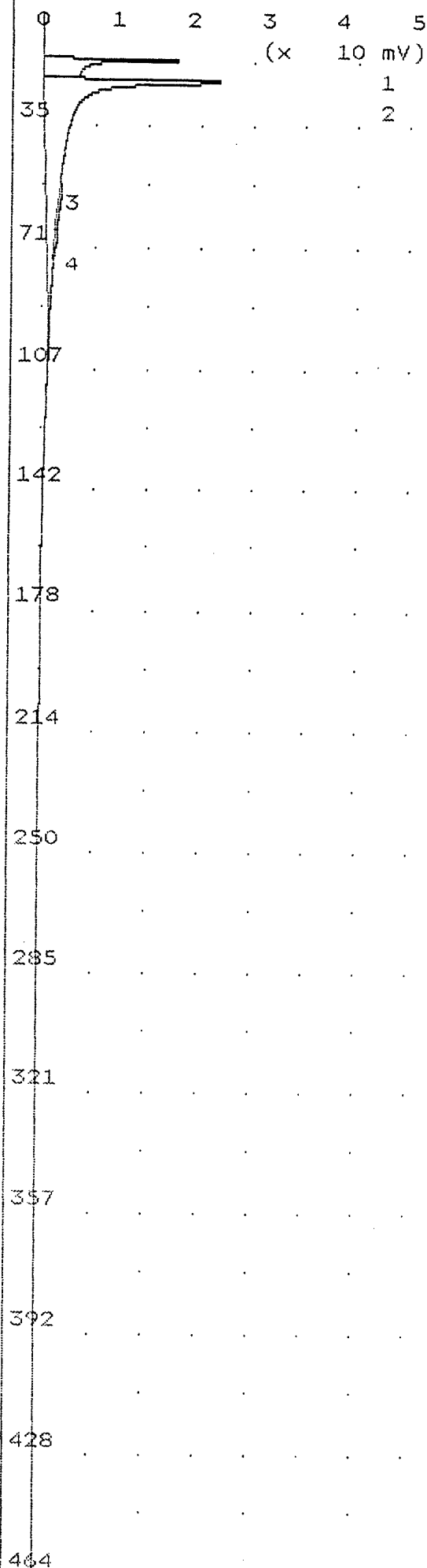
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.74 mVS	13.9
2	Unknown	139.6 mVS	20.6
3	benzene	3.431 ppb	53.0
4	tce	0.914 ppb	66.1

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-2  
25' bls



Time Printed: Dec 13,94 16:18

Sample Time: Dec 13,94 16:10

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

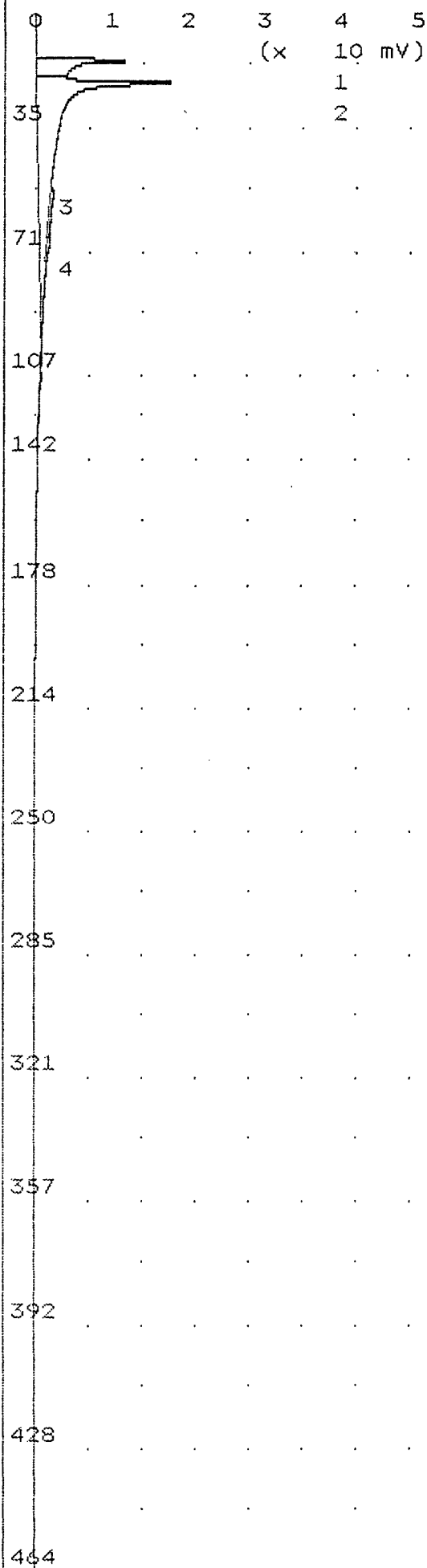
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	44.87 mVS	14.1
2	Unknown	209.0 mVS	20.3
3	benzene	3.433 ppb	52.8
4	tce	1.363 ppb	66.1

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-3  
1.0' bls



Time Printed: Dec 13,94 17:03

Sample Time: Dec 13,94 16:55

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 31 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	37.79 mVS	14.0
2	Unknown	171.0 mVS	20.4
3	benzene	3.453 ppb	52.9
4	tce	1.139 ppb	66.2

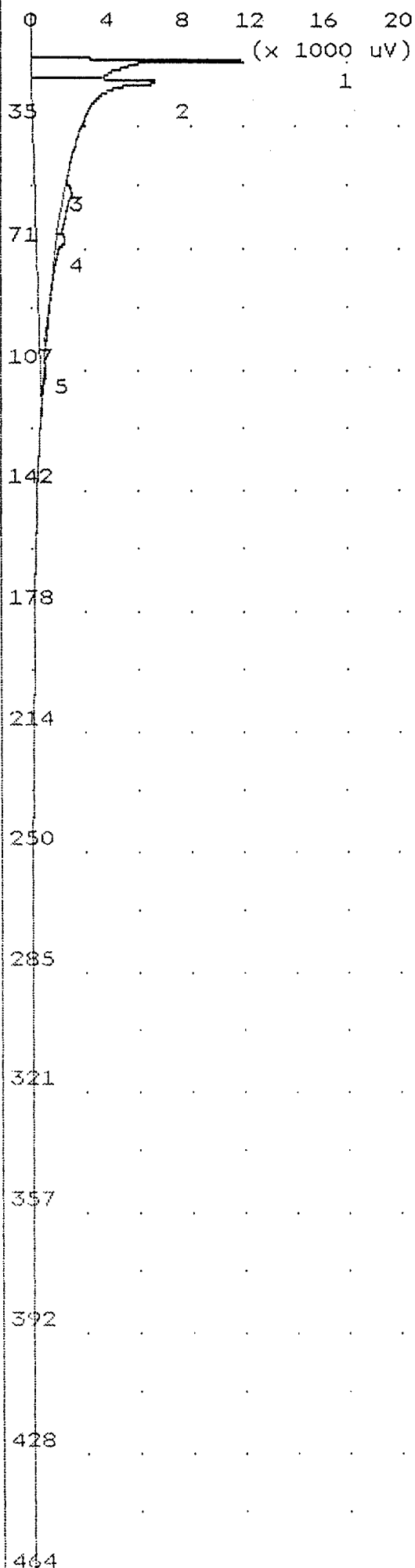
## Notes

Jefferson Barracks, Missouri  
Mark Henson

~~100 ppb standard~~

B-3

5' 015



Time Printed: Dec 13,94 17:14

Sample Time: Dec 13,94 17:05

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

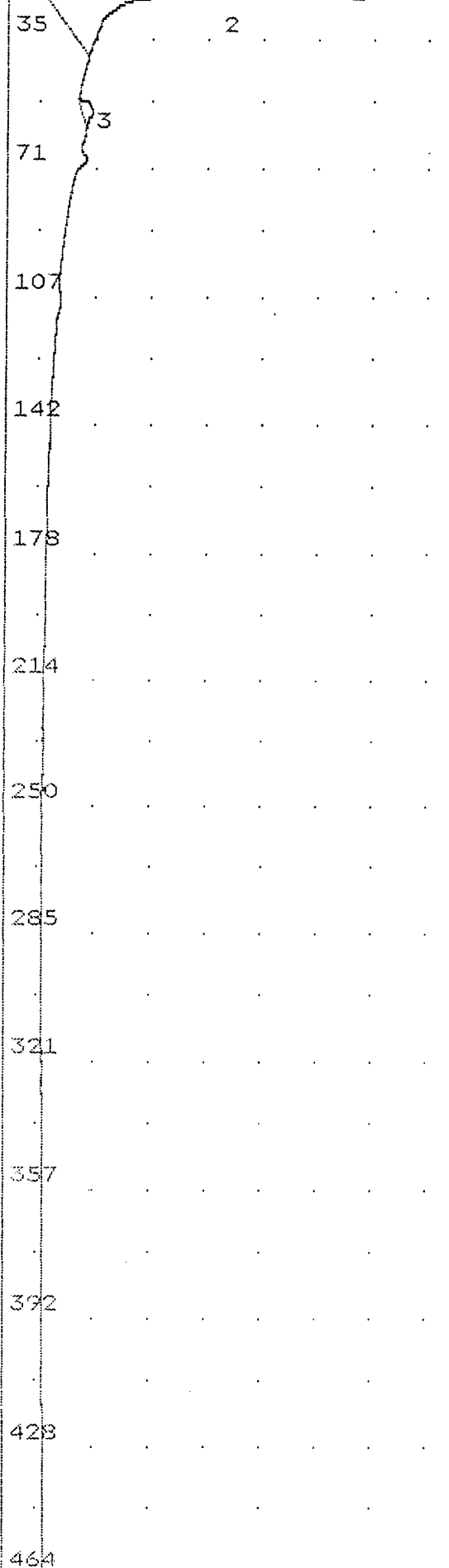
PK	Compound Name	Area/Conc	R.T.
1	Unknown	35.44 mVS	14.1
2	Unknown	156.3 mVS	20.6
3	benzene	3.792 ppb	53.5
4	tce	2.075 ppb	66.5
5	toluene	0.459 ppb	105.6

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-3  
10" bls

0 2 4 6 8 10  
(x 1000 uV)



Time Printed: Dec 13,94 17:24

Sample Time: Dec 13,94 17:15

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

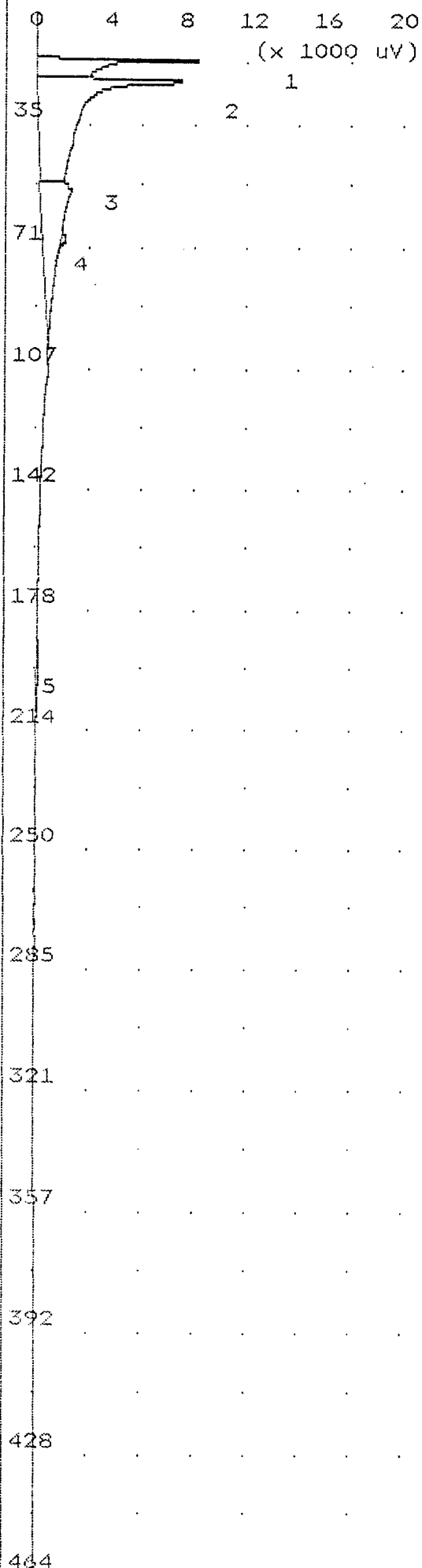
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.45 mVS	14.4
2	Unknown	21.77 mVS	20.8
3	benzene	1.220 ppb	52.9

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-3  
15' bls



Time Printed: Dec 13,94 17:34

Sample Time: Dec 13,94 17:25

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	25.24 mVS	14.0
2	Unknown	80.24 mVS	20.6
3	benzene	30.69 ppb	52.7
4	tce	0.699 ppb	66.6
5	Unknown	1.141 mVS	191.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

B-3  
20' bls

0 4 8 12 16 20  
(x 1000 uV)

35 2

71 3

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 17:44

Sample Time: Dec 13,94 17:36

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 31 C

Max Gain 1000

Analysis Time 500.0 sec

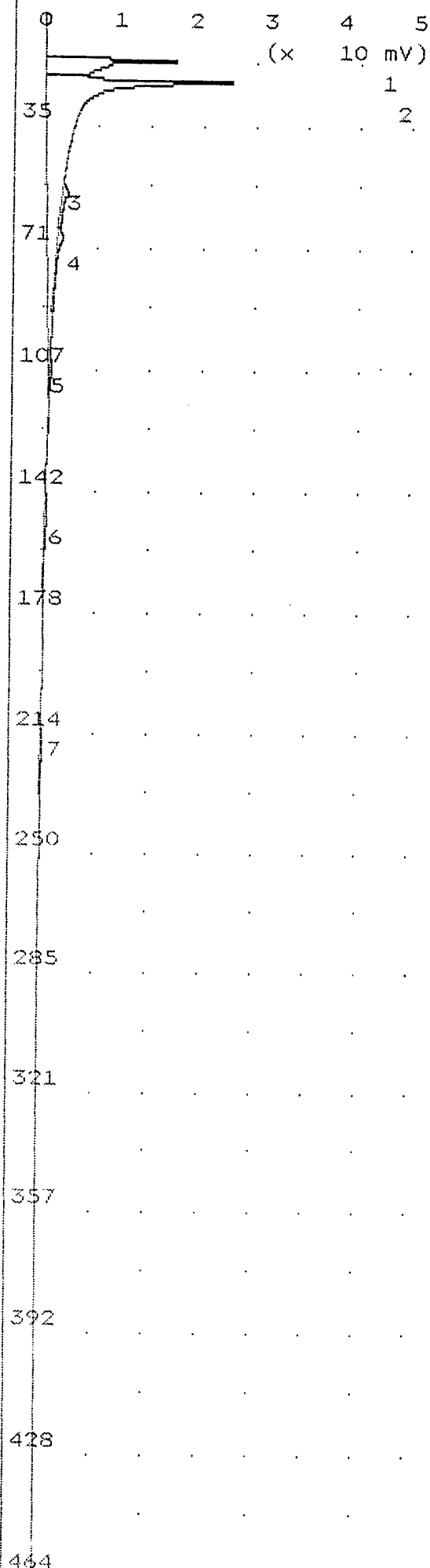
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	23.79 mVS	14.1
2	Unknown	46.28 mVS	20.8
3	benzene	2.572 ppb	53.6

Notes

Jefferson Barracks, Missouri  
Mark Henson

B-3  
25' bls



Time Printed: Dec 14,94 10:45

Sample Time: Dec 14,94 10:37

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

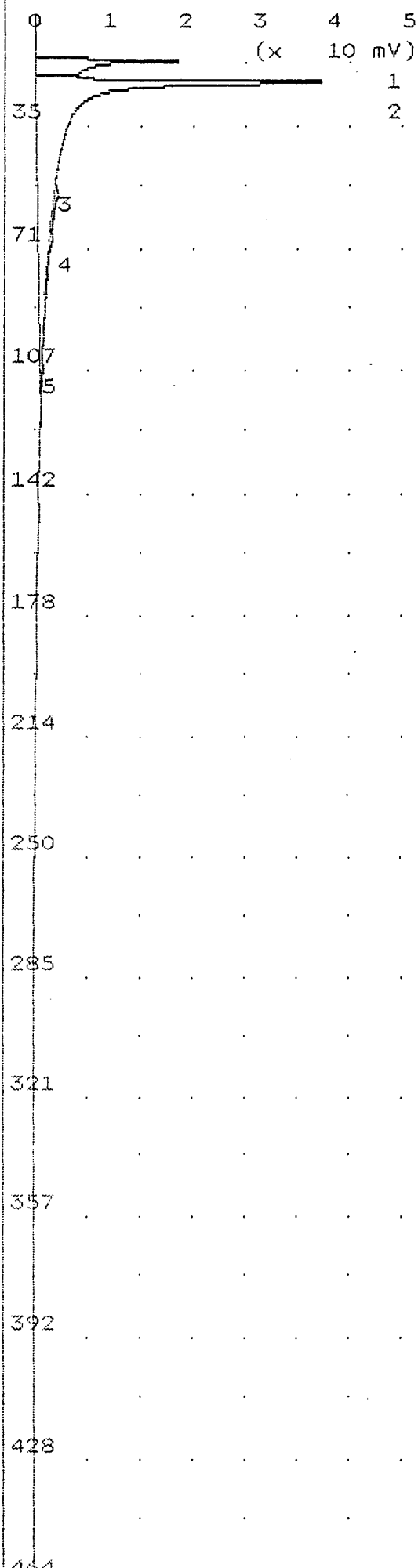
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	51.98 mVS	14.0
2	Unknown	247.8 mVS	20.2
3	benzene	7.752 ppb	53.0
4	tce	3.909 ppb	65.7
5	toluene	4.054 ppb	104.8
6	pce	4.308 ppb	146.2
7	ethylbenzene	6.061 ppb	214.0

## Notes

Jefferson Barracks  
Mark Henson

B-4  
0.5' bls



Time Printed: Dec 14,94 10:57

Sample Time: Dec 14,94 10:48

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

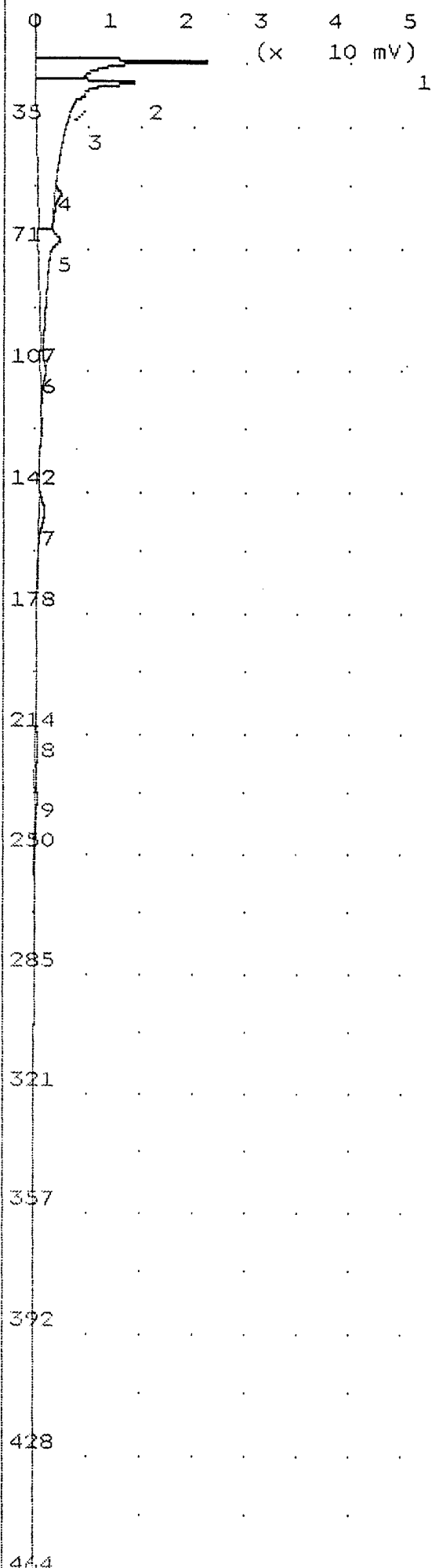
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	53.69 mVS	14.0
2	Unknown	291.4 mVS	20.5
3	benzene	5.937 ppb	52.9
4	tce	2.112 ppb	66.0
5	toluene	1.086 ppb	104.8

## Notes

Jefferson Barracks  
Mark Henson

B-4  
5' bls



Time Printed: Dec 14,94 11:07

Sample Time: Dec 14,94 10:58

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	66.38 mVS	13.9
2	Unknown	175.1 mVS	20.5
3	dce	0.486 ppb	24.0
4	benzene	4.783 ppb	53.2
5	tce	47.04 ppb	66.2
6	toluene	22.64 ppb	104.8
7	pce	12.72 ppb	146.4
8	ethylbenzene	37.64 ppb	215.8
9	m,p-xylene	24.99 ppb	230.8

## Notes

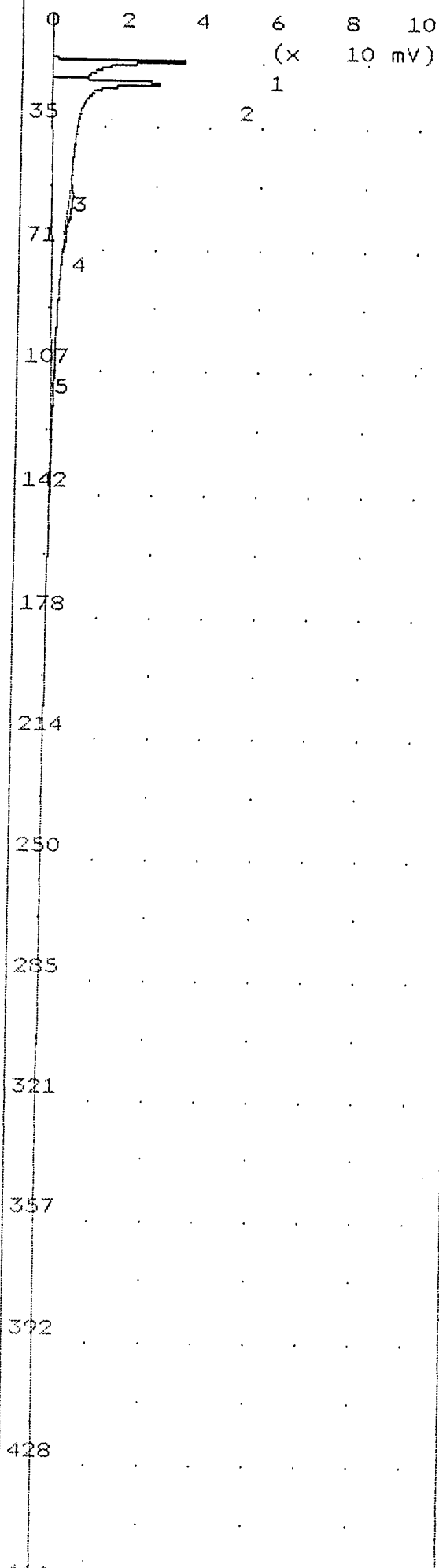
Jeffersn Barracks

Mark Henson

B-4

10' bls

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 11:18

Sample Time: Dec 14,94 11:09

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

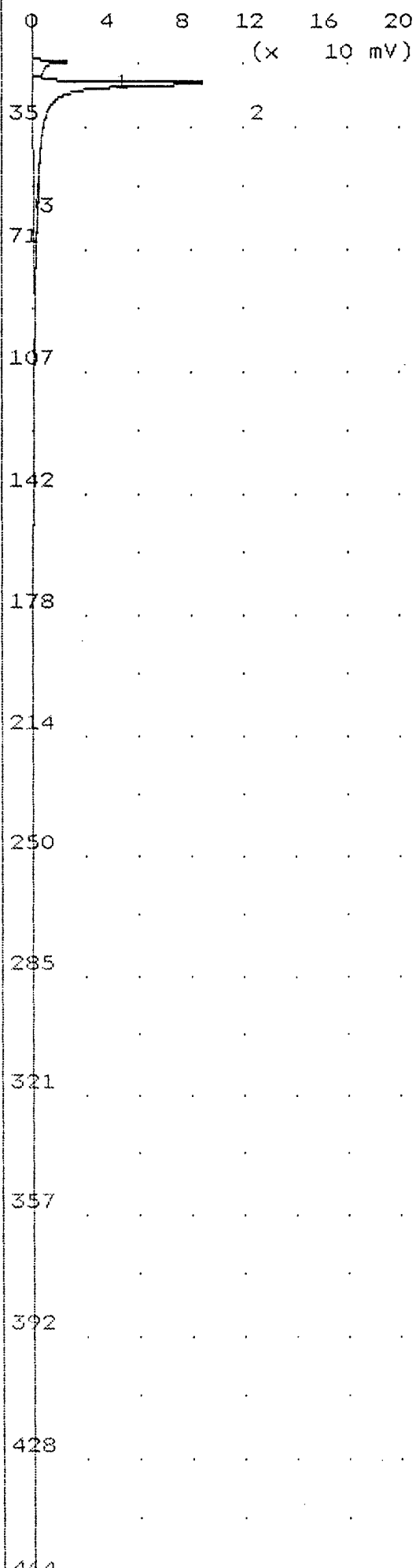
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	95.66 mVS	14.1
2	Unknown	446.1 mVS	20.4
3	benzene	13.60 ppb	53.3
4	tce	1.632 ppb	66.1
5	toluene	0.847 ppb	104.4

Notes

Jefferson Barracks  
 Mark Hanson

B-4  
 15' bls



Time Printed: Dec 14,94 11:58

Sample Time: Dec 14,94 11:50

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

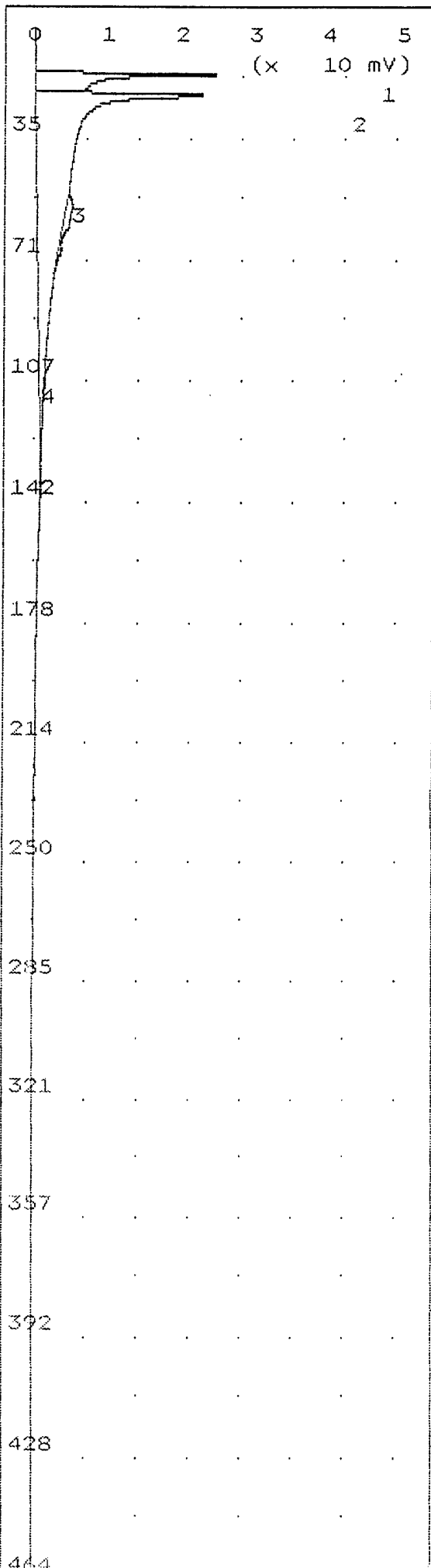
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	48.48 mVS	14.2
2	Unknown	439.8 mVS	20.6
3	benzene	0.710 ppb	53.2

## Notes

Jeffersn Barracks  
Mark Henson

B-4  
20" bls

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 11:29

Sample Time: Dec 14,94 11:20

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	64.45 mVS	14.0
2	Unknown	373.1 mVS	20.3
3	benzene	13.68 ppb	53.0
4	toluene	0.938 ppb	103.8

Notes

Jefferson Barracks  
Mark Henson

B-4  
25' bls

0 2 4 6 8 10  
(x 10 mV)

35 1 2

71

107 3

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 11,94 05:39

Sample Time: Dec 11,94 05:31

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 31 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	110.5 mVS	13.9
2	Unknown	695.7 mVS	20.5
3	Unknown	5.675 mVS	84.8

Notes

Jefferson Barracks, Missouri  
Mark Henson

C-1  
~~C-2~~  
1' bls

0 4 8 12 16 20  
(x 10 mV)

35 2

71 3

107 4

142 5

178 6

214 7

250

285

321

357

392

428

464

Time Printed: Dec 11,94 23:39

Sample Time: Dec 11,94 23:29

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

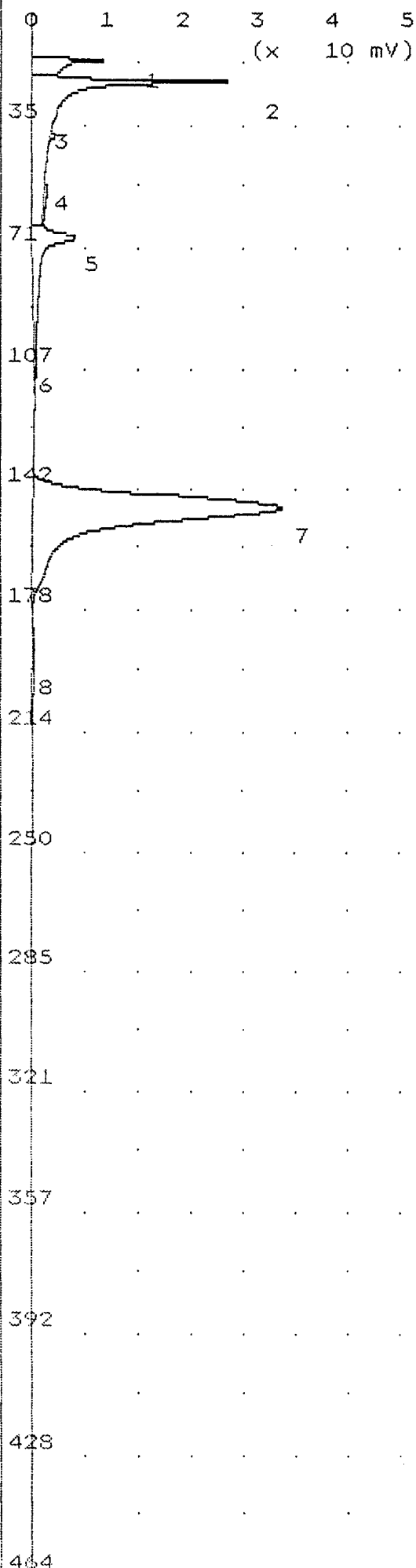
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	54.91 mVS	13.9
2	Unknown	604.8 mVS	20.4
3	benzene	3.917 ppb	53.0
4	tce	2.502 ppb	65.8
5	toluene	1.226 ppb	104.5
6	pce	106.6 ppb	145.8
7	Unknown	2.621 mVS	190.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

C-2  
0.5' bls



Time Printed: Dec 12,94 00:00

Sample Time: Dec 11,94 23:52

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

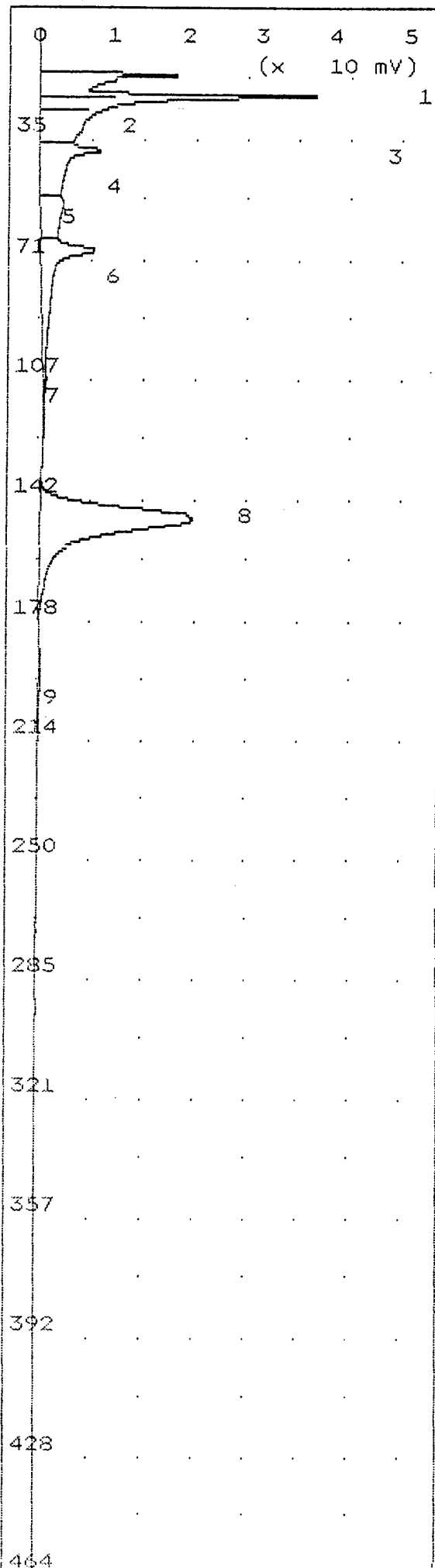
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	31.93 mVS	14.0
2	Unknown	158.7 mVS	20.4
3	Unknown	1.074 mVS	36.4
4	benzene	1.834 ppb	52.4
5	tce	26.12 ppb	66.0
6	toluene	0.388 ppb	104.5
7	pce	549.4 ppb	146.0
8	Unknown	2.721 mVS	190.6

## Notes

Jefferson Barracks, Missouri  
Mark Henson

C-2  
5' bls



Time Printed: Dec 11,94 23:49

Sample Time: Dec 11,94 23:41

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

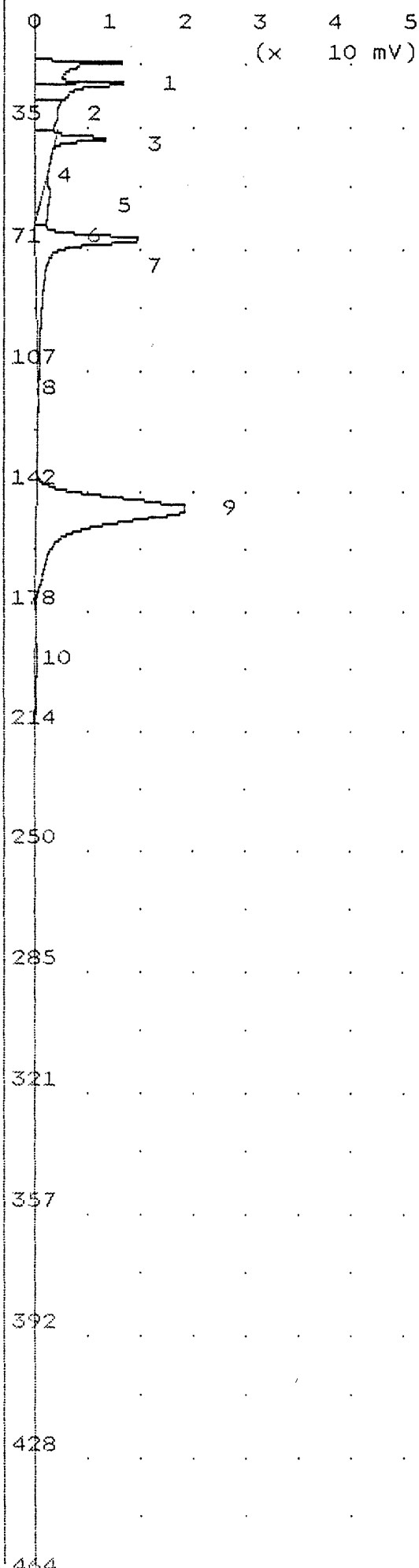
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.28 mVS	13.9
2	Unknown	35.21 mVS	15.6
3	Unknown	160.4 mVS	20.0
4	Unknown	64.69 mVS	36.4
5	benzene	22.34 ppb	52.4
6	tce	37.46 ppb	66.0
7	toluene	0.584 ppb	104.5
8	pce	324.6 ppb	144.6
9	Unknown	2.648 mVS	190.6

## Notes

Jefferson Barracks, Missouri  
 Mark Henson

C-2  
 10' bls



Time Printed: Dec 12,94 00:12

Sample Time: Dec 12,94 00:04

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	15.08 mVS	14.2
2	Unknown	18.75 mVS	15.8
3	Unknown	70.57 mVS	20.5
4	Unknown	0.454 mVS	29.7
5	Unknown	68.36 mVS	36.5
6	benzene	1.687 ppb	52.7
7	tce	43.36 ppb	66.0
8	toluene	0.337 ppb	103.8
9	pce	325.8 ppb	144.4
10	Unknown	3.089 mVS	189.6

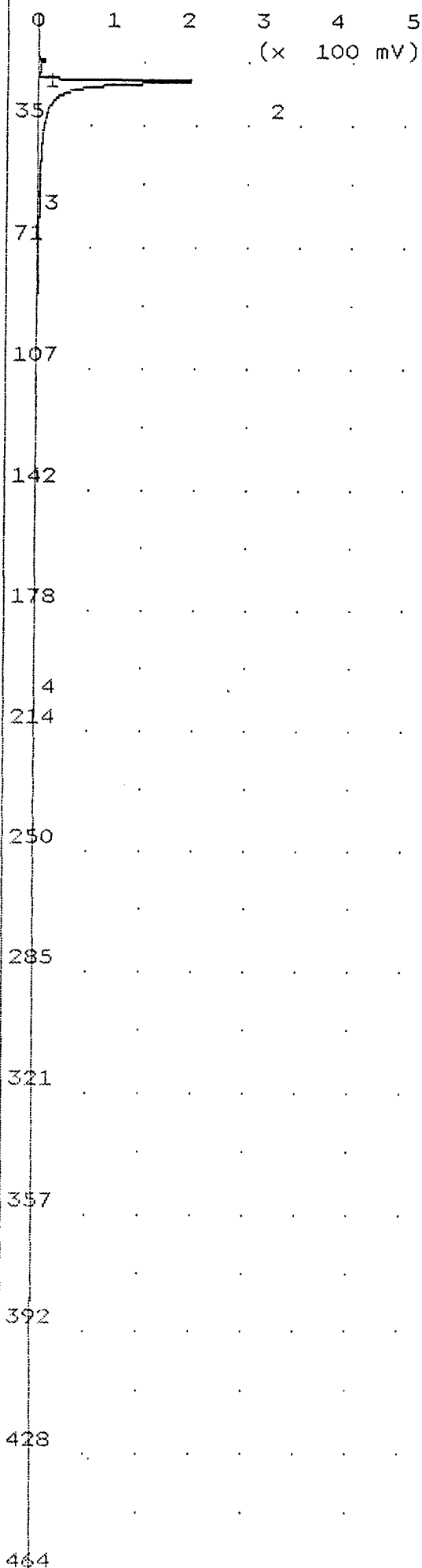
## Notes

Jefferson Barracks, Missouri

Mark Henson

C-2

11.5' bls



Time Printed: Dec 12,94 01:46

Sample Time: Dec 12,94 01:37

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

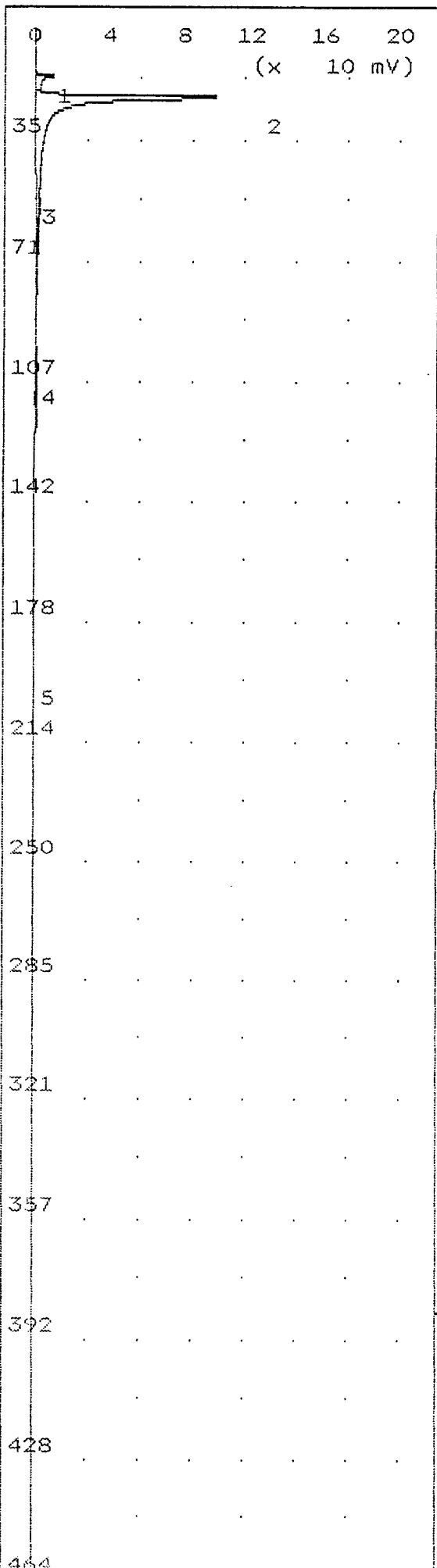
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.44 mVS	14.0
2	Unknown	785.1 mVS	20.2
3	benzene	0.648 ppb	51.0
4	ethylbenzene	9.576 ppb	191.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

C-3  
0.5' bls

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Dec 12,94 02:19

Sample Time: Dec 12,94 02:08

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	26.20 mVS	14.0
2	Unknown	420.2 mVS	20.6
3	benzene	4.717 ppb	51.4
4	toluene	0.413 ppb	104.5
5	Unknown	4.331 mVS	192.4

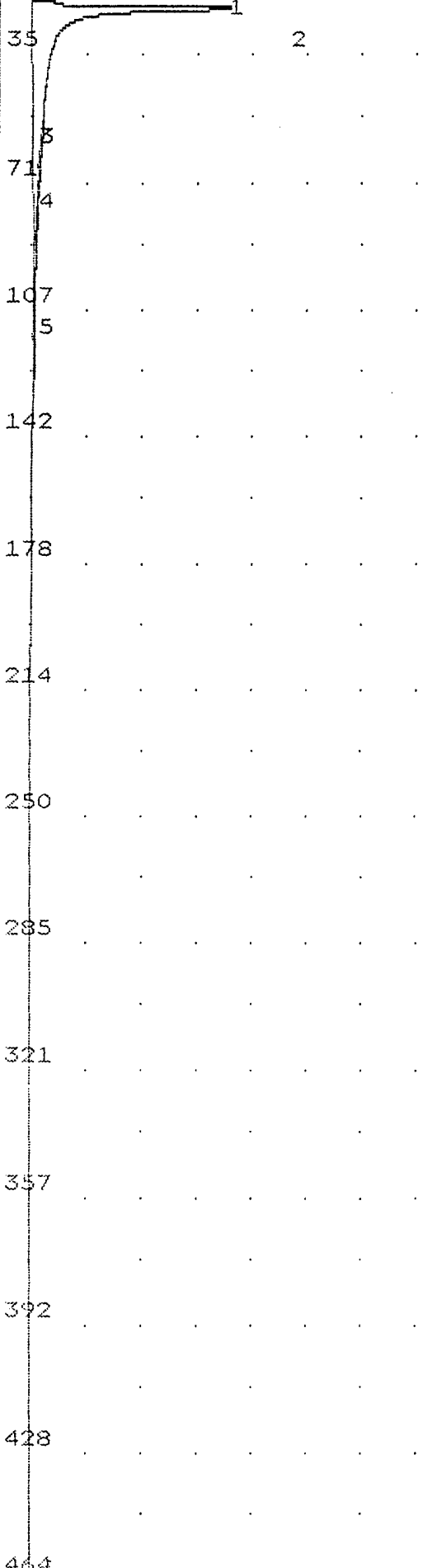
Notes

Jefferson Barracks, Missouri  
 Mark Henson

C-3  
 5' bls

Analysis #14 10S+ GC Function Analysis Report

0 2 4 6 8 10  
(x 10 mV)



Time Printed: Dec 12,94 03:23

Sample Time: Dec 12,94 03:14

Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

Peak Report

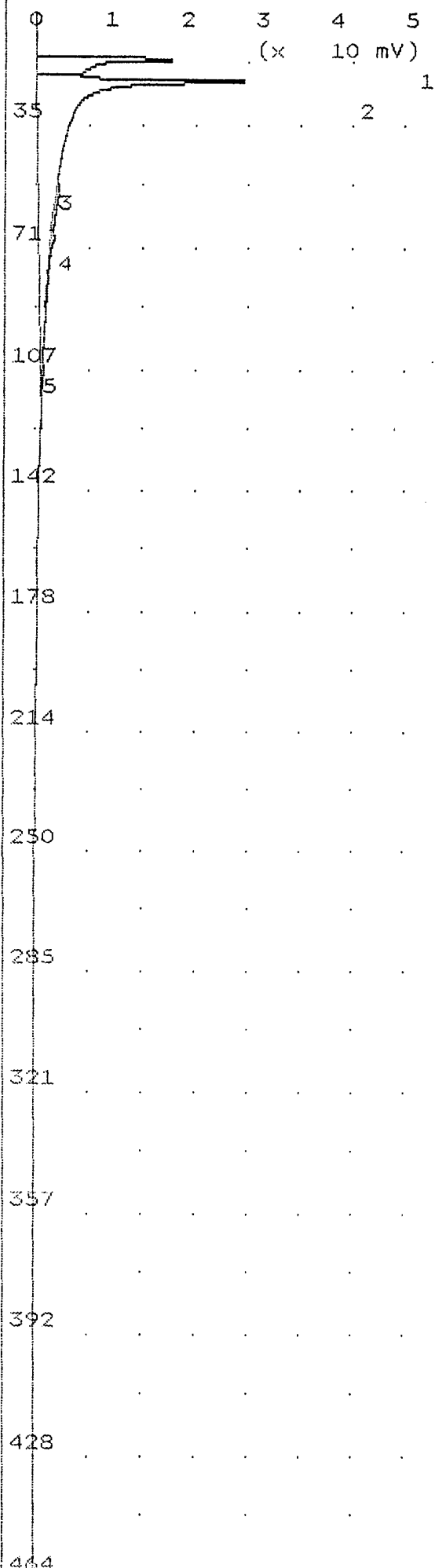
PK	Compound Name	Area/Conc	R.T.
1	Unknown	54.63 mVS	14.0
2	Unknown	351.2 mVS	20.6
3	benzene	4.272 ppb	53.0
4	tce	1.793 ppb	66.1
5	toluene	1.017 ppb	105.2

Notes

Jefferson Barracks, Missouri  
Mark Henson

C-4  
0.5" bls

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Dec 12,94 03:37  
 Sample Time: Dec 12,94 03:28  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	58.83 mVS	13.8
2	Unknown	272.1 mVS	20.1
3	benzene	4.154 ppb	52.8
4	tce	2.251 ppb	65.8
5	toluene	0.681 ppb	104.4

Notes

Jefferson Barracks, Missouri  
 Mark Henson

C-4  
 5' bls

0 2 4 6 8 10  
(x 10 mV)

35 1 2

71 3

107 4

142 5

178 6

214

250

285

321

357

392

428

464

Time Printed: Dec 12,94 04:09

Sample Time: Dec 12,94 04:00

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

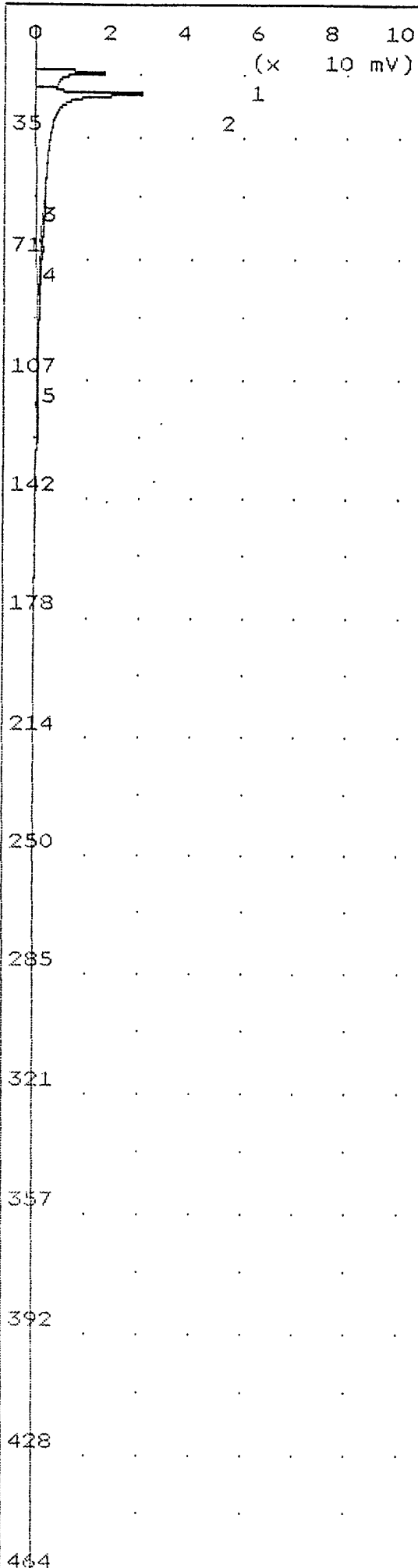
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	71.39 mVS	13.8
2	Unknown	431.7 mVS	20.5
3	benzene	4.343 ppb	52.8
4	tce	1.562 ppb	66.2
5	toluene	1.415 ppb	104.9
6	Unknown	1.442 mVS	191.0

Notes

Jefferson Barracks, Missouri  
Mark Henson

C-5  
0.5' bls

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Dec 12,94 04:21  
Sample Time: Dec 12,94 04:12  
Method  
Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 33 C  
Max Gain 1000  
Analysis Time 500.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	55.14 mVS	13.9
2	Unknown	265.9 mVS	20.2
3	benzene	4.041 ppb	52.8
4	tce	2.158 ppb	66.2
5	toluene	0.693 ppb	104.9

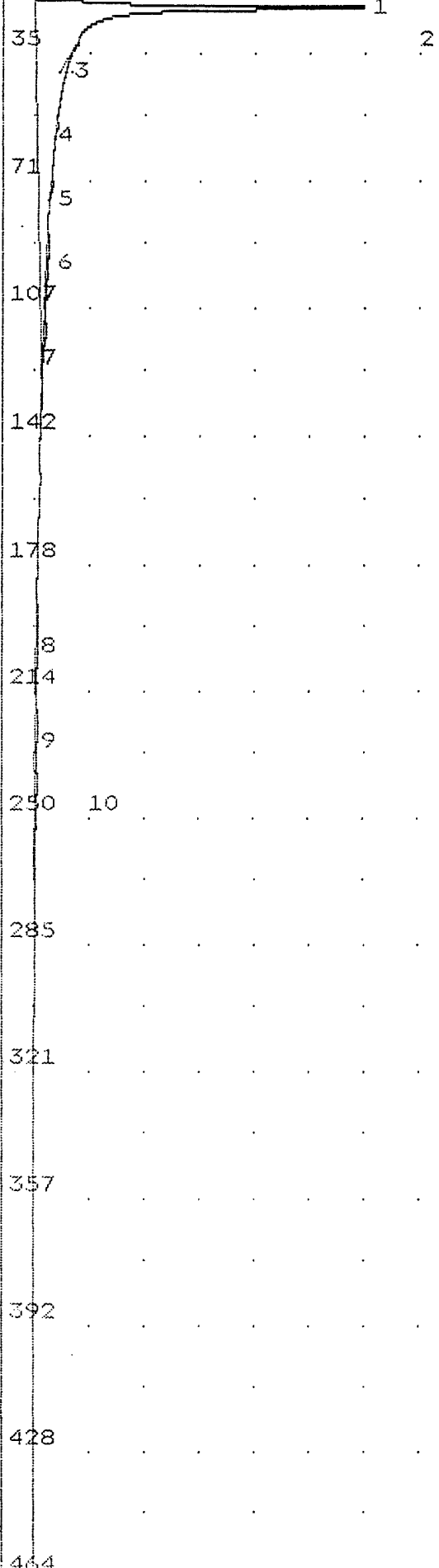
Notes

Jefferson Barracks, Missouri  
Mark Henson

C-5  
5' bls

Analysis #13 10S+ GC Function Analysis Report

0 1 2 3 4 5  
(x 10 mV)



Time Printed: Dec 11,94 05:19

Sample Time: Dec 11,94 05:10

Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

Peak Report

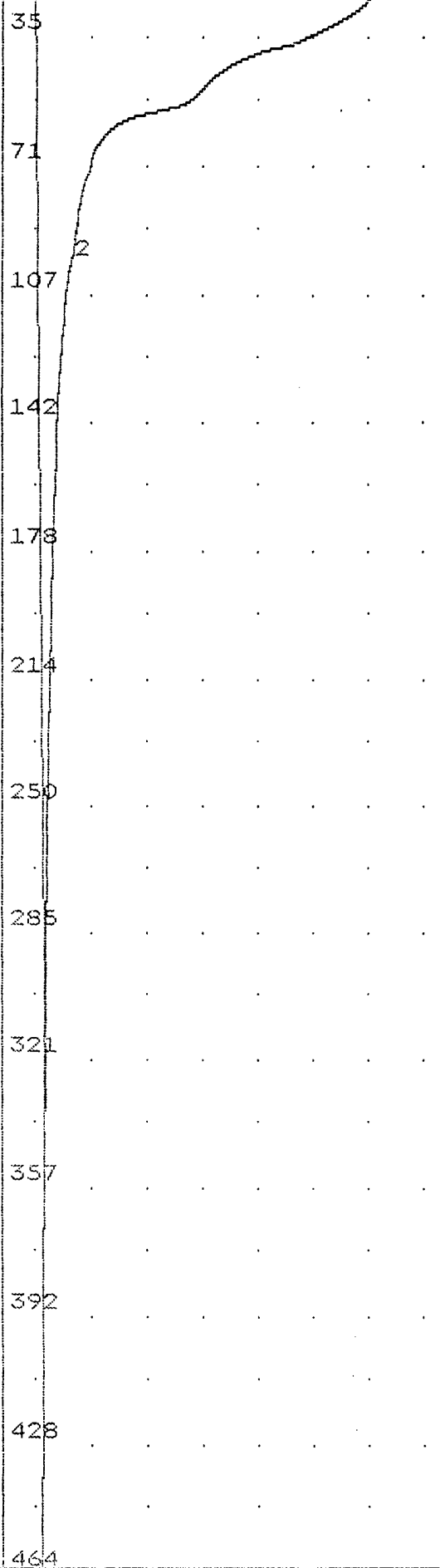
PK	Compound Name	Area/Conc	R.T.
1	Unknown	51.58 mVS	14.0
2	Unknown	328.9 mVS	20.4
3	Unknown	0.327 mVS	30.4
4	benzene	0.153 ppb	53.4
5	tce	0.389 ppb	69.7
6	Unknown	4.631 mVS	85.0
7	toluene	2.408 ppb	110.6
8	Unknown	2.788 mVS	196.6
9	ethylbenzene	8.736 ppb	220.6
10	m,p-xylene	15.14 ppb	238.0

Notes

Jefferson Barracks, Missouri  
Mark Henson

D-1  
15' bls

0 2 4 6 8 10  
(x 10 mV)



Time Printed: Dec 11,94 04:44

Sample Time: Dec 11,94 04:35

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

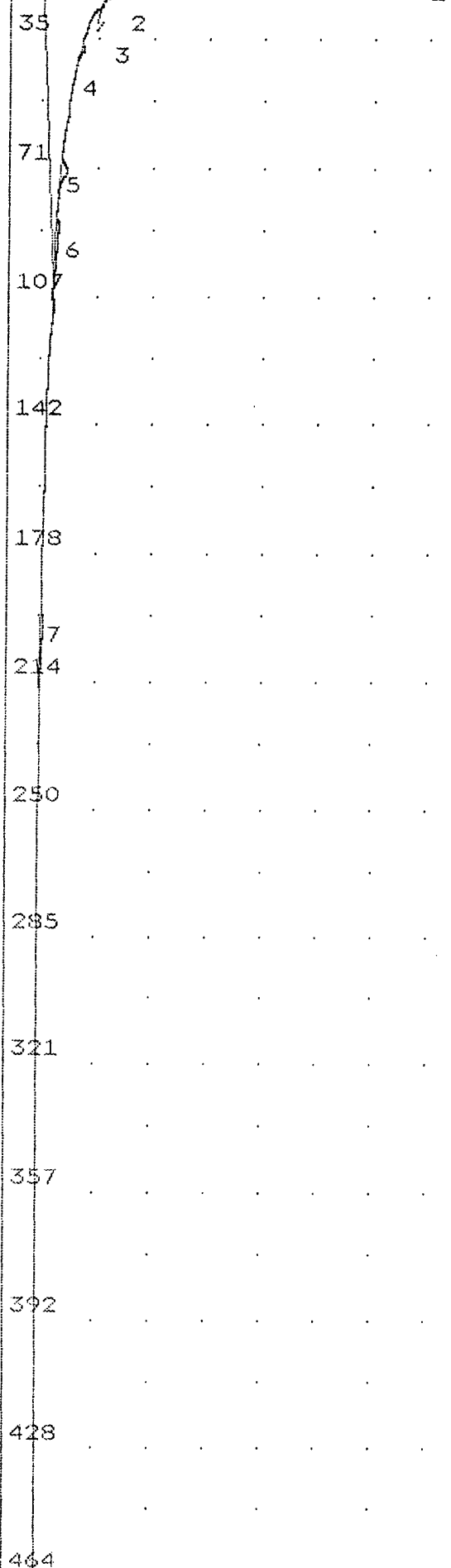
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	3.818 VSec	20.6
2	Unknown	0.727 mVS	84.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

D-001  
18.5' bls

0 1 2 3 4 5  
(x 10 mV)  
1



Time Printed: Dec 11,94 04:23

Sample Time: Dec 11,94 04:15

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	319.0 mVS	14.0
2	Unknown	4.634 mVS	20.5
3	dce	0.180 ppb	24.0
4	Unknown	0.884 mVS	36.4
5	tce	1.196 ppb	69.7
6	Unknown	4.319 mVS	85.0
7	Unknown	1.988 mVS	197.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

D-1  
25' bls

0 1 2 3 4 5  
(x 10 mV)  
1

35 2

71 3

107 4

142 5

178 6

214

250

285

321

357

392

428

464

Time Printed: Dec 11,94 04:34

Sample Time: Dec 11,94 04:25

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 31 C

Max Gain 1000

Analysis Time 500.0 sec

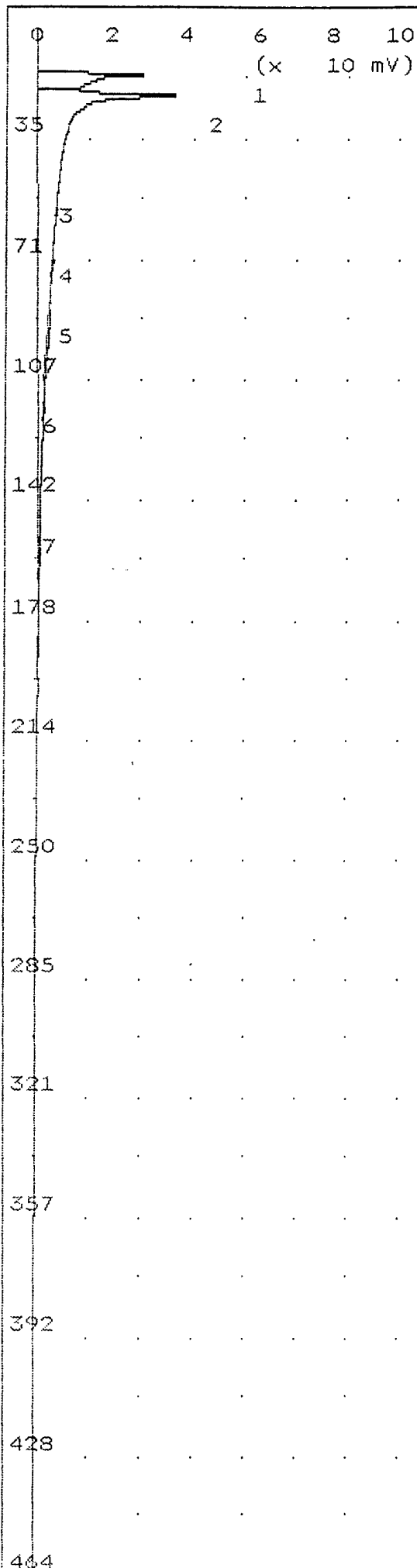
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	62.84 mVS	13.9
2	Unknown	322.3 mVS	20.2
3	tce	0.333 ppb	69.6
4	Unknown	4.692 mVS	84.6
5	toluene	0.688 ppb	110.6
6	Unknown	2.041 mVS	196.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

D-2  
20' bls



Time Printed: Dec 11,94 05:29

Sample Time: Dec 11,94 05:21

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

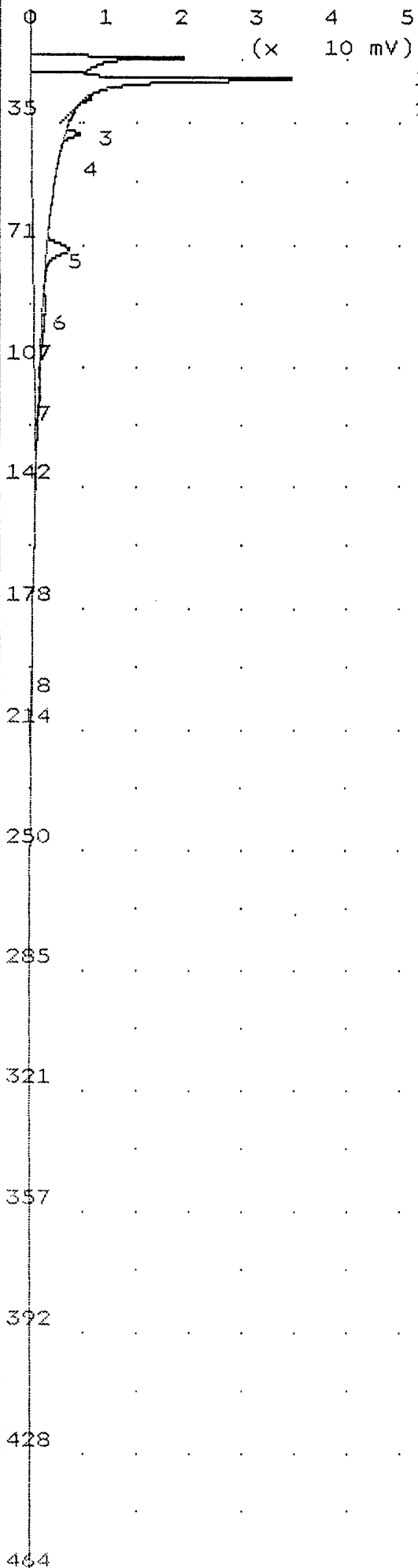
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	98.24 mVS	13.8
2	Unknown	613.6 mVS	19.9
3	benzene	0.185 ppb	53.3
4	tce	0.650 ppb	69.7
5	Unknown	5.013 mVS	84.6
6	toluene	0.479 ppb	110.4
7	pce	2.079 ppb	151.6

## Notes

Jefferson Barracks, Missouri  
Mark Henson

D-2  
10' bls

Analysis #16 10S+ GC Function Analysis Report

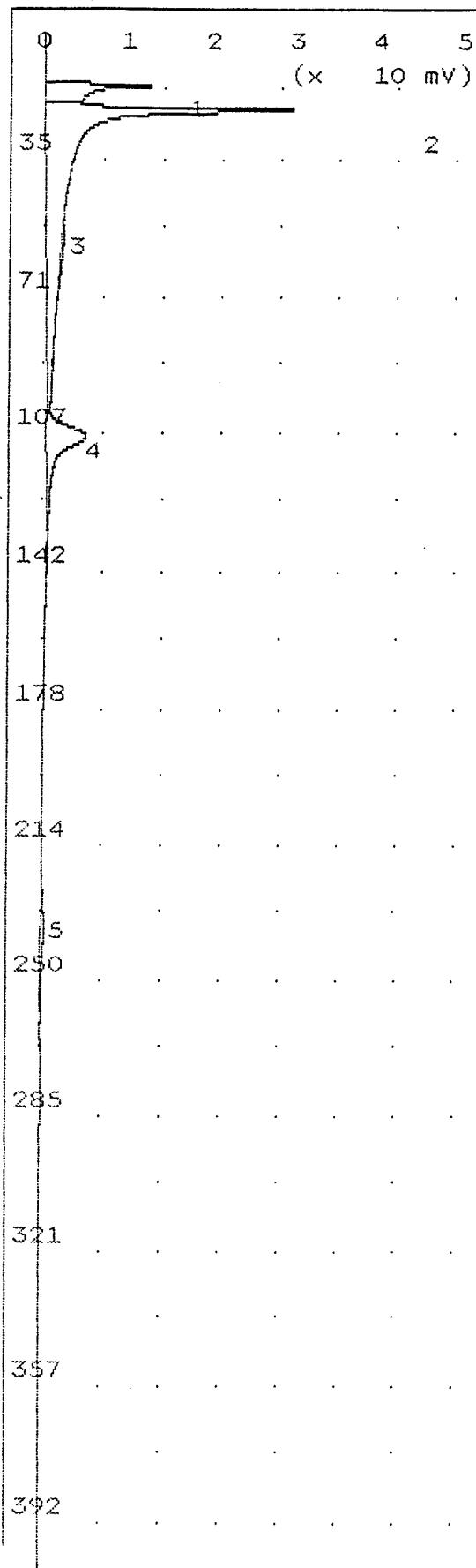


Time Printed: Dec 11,94 05:50  
 Sample Time: Dec 11,94 05:41  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 31 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report			
PK	Compound Name	Area/Conc	R.T.
1	Unknown	62.37 mVS	14.0
2	Unknown	341.4 mVS	20.1
3	dce	0.521 ppb	26.4
4	Unknown	3.957 mVS	36.6
5	tce	7.331 ppb	70.1
6	Unknown	4.279 mVS	84.8
7	toluene	1.229 ppb	110.9
8	Unknown	1.775 mVS	197.2

Notes  
 Jefferson Barracks, Missouri  
 Mark Henson  
 D-2  
 21' bls

Analysis #37 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 17:41  
 Sample Time: Dec 14,94 17:32  
 Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

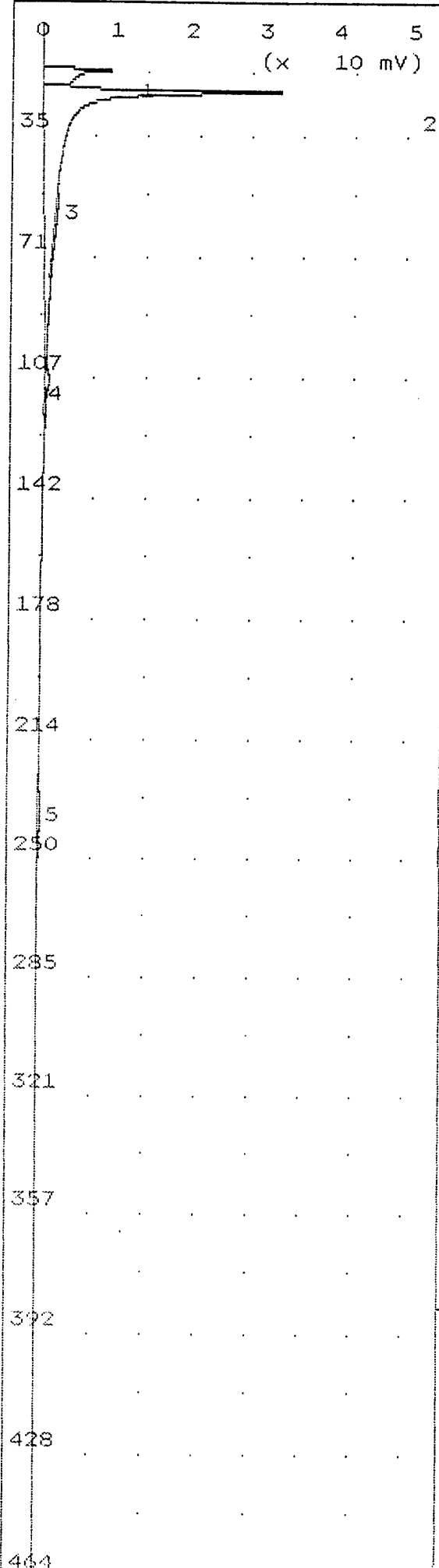
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	38.51 mVS	14.1
2	Unknown	229.7 mVS	20.1
3	benzene	1.713 ppb	51.3
4	toluene	66.05 ppb	105.7
5	m,p-xylene	106.3 ppb	233.6

Notes

Jefferson Barracks  
 Mark Henson

Decon water #29  
 12-7-94



Time Printed: Dec 14,94 17:20

Sample Time: Dec 14,94 17:12

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

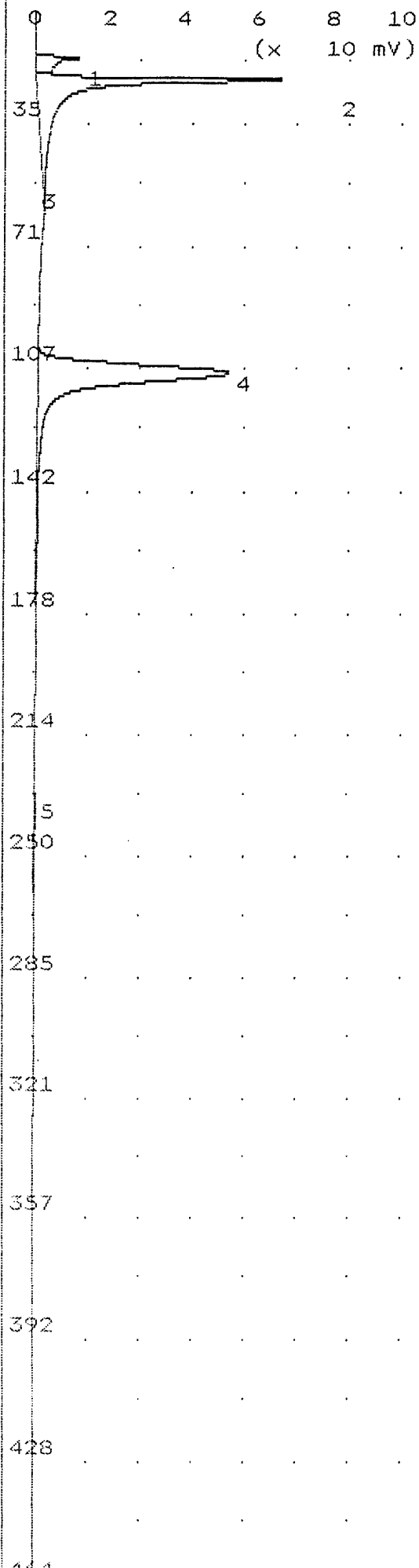
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	30.74 mVS	14.0
2	Unknown	219.9 mVS	20.0
3	benzene	2.942 ppb	51.0
4	toluene	4.819 ppb	105.6
5	m,p-xylene	83.43 ppb	233.4

## Notes

Jeffersn Barracks  
Mark Henson

~~air blank~~  
PECCN H2O #26  
12-9-94



Time Printed: Dec 14,94 17:30

Sample Time: Dec 14,94 17:22

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

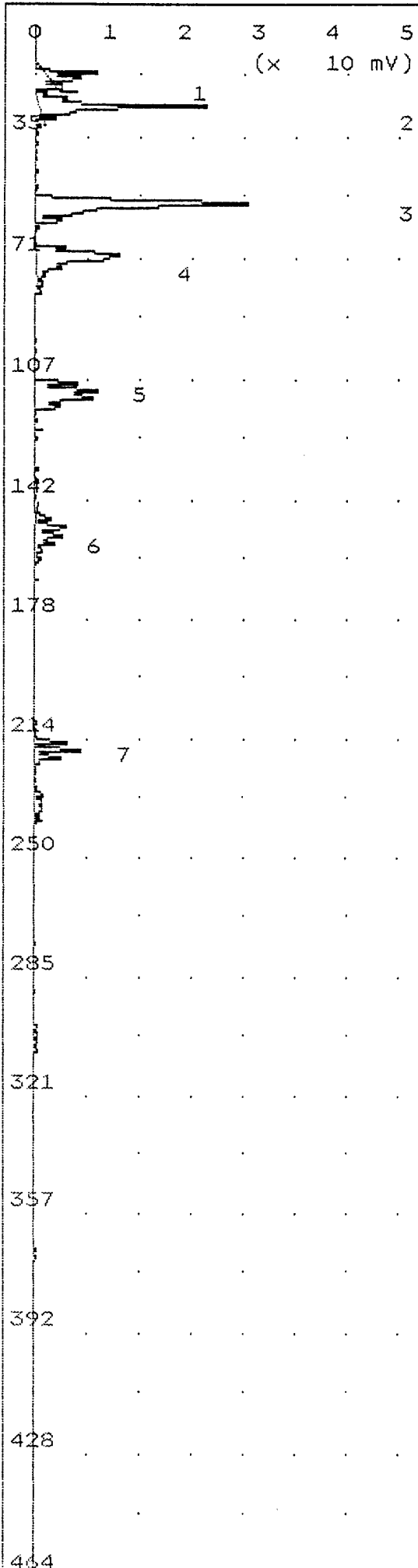
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	36.43 mVS	14.1
2	Unknown	239.7 mVS	20.5
3	benzene	0.791 ppb	51.2
4	toluene	242.8 ppb	106.1
5	m,p-xylene	42.84 ppb	234.0

## Notes

Jeffersn Barracks  
Mark Henson

Decon water #26  
12-12-94



Time Printed: Dec 9,94 14:47

Sample Time: Dec 9,94 14:32

## Method

Slope Up 14.00 mV/Sec  
Slope Down 42.00 mV/Sec  
Min Area 5.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

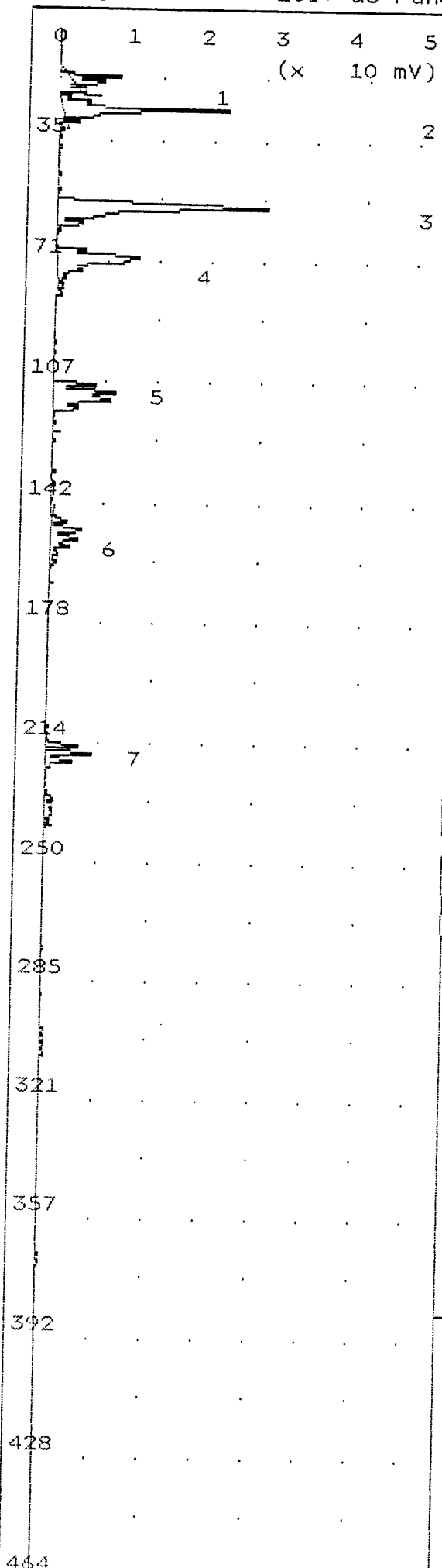
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	15.42 mVS	14.0
2	dce	100.0 ppb	24.0
3	benzene	100.0 ppb	53.0
4	tce	100.0 ppb	69.3
5	toluene	100.0 ppb	108.2
6	pce	100.0 ppb	148.6
7	ethylbnz,m,p-xyl	300.0 ppb	213.0

## Notes

Mark Henson  
Jefferson Barracks, Missouri

100 ppb standard



Time Printed: Dec 9,94 14:41

Sample Time: Dec 9,94 14:32

## Method

Slope Up 14.00 mV/Sec  
Slope Down 42.00 mV/Sec  
Min Area 5.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

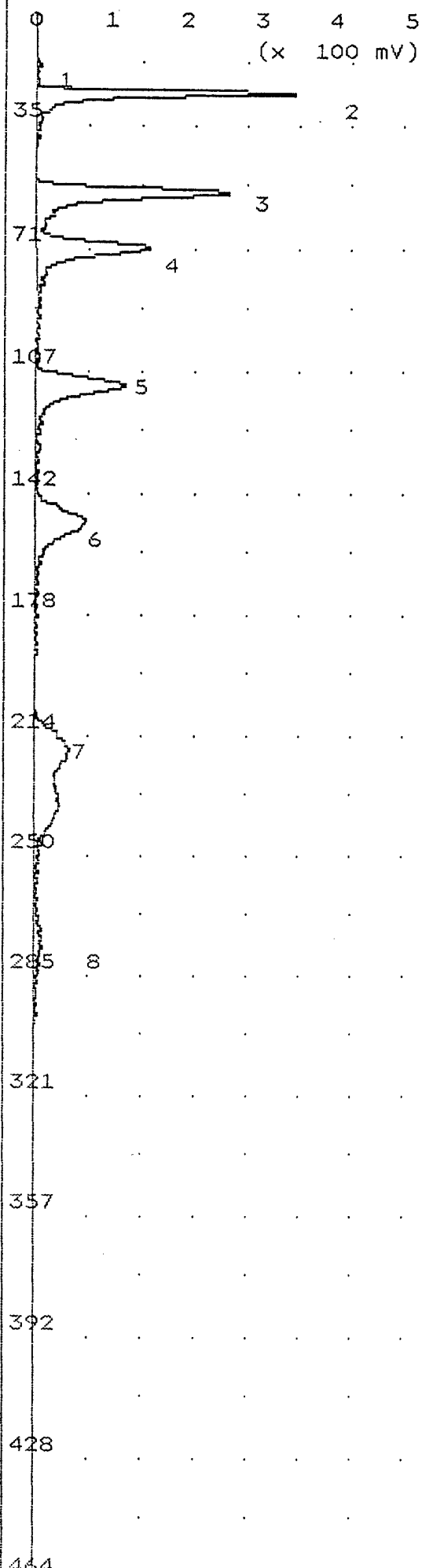
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	15.42 mVS	14.0
2	dce	59.78 ppb	24.0
3	benzene	91.54 ppb	53.0
4	tce	81.60 ppb	69.3
5	toluene	71.34 ppb	108.2
6	pce	44.46 ppb	148.6
7	ethylbnz,m,p-xyl	311.9 ppb	213.0

## Notes

Mark Henson  
Jefferson Barracks, Missouri

100 ppb standard



Time Printed: Dec 9,94 14:58

Sample Time: Dec 9,94 14:50

## Method

Slope Up	13.00	mV/Sec
Slope Down	39.00	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	13	ml/min
B/F Flow	13	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

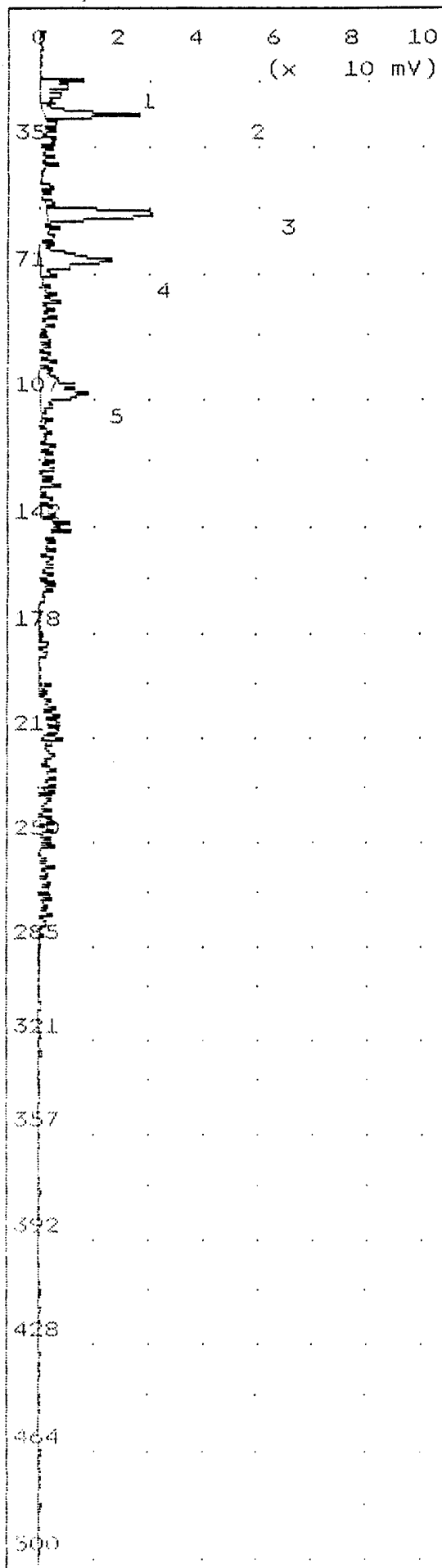
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.50 mVS	15.6
2	dce	1.959 ppm	23.8
3	benzene	1.149 ppm	51.8
4	tce	1.438 ppm	68.6
5	toluene	1.400 ppm	108.6
6	pce	2.453 ppm	149.0
7	ethylbnz,m,p-xyl	8.689 ppm	216.4
8	Unknown	212.7 mVS	275.2

## Notes

Mark Henson  
Jefferson Barracks, Missouri

1 ppm standard



Time Printed: Dec 9,94 13:05

Sample Time: Dec 9,94 12:57

## Method

Slope Up 67.50 mV/Sec  
Slope Down 202.5 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 28 C  
Max Gain 1000  
Analysis Time 500.0 sec

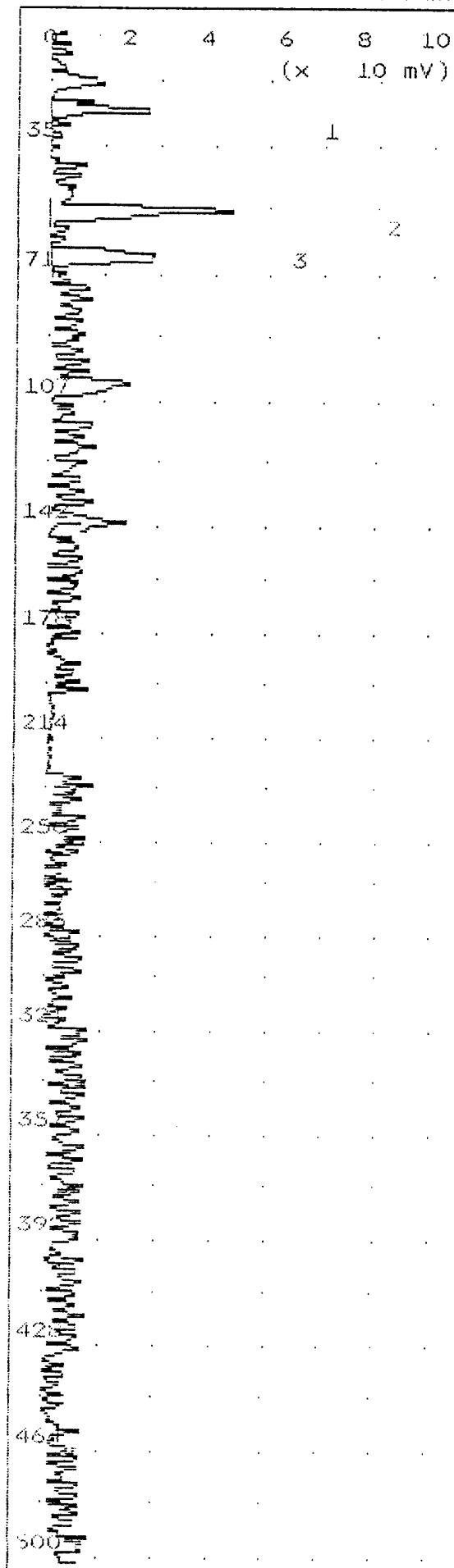
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.33 mVS	14.6
2	Unknown	54.01 mVS	23.9
3	Unknown	80.24 mVS	51.7
4	Unknown	79.42 mVS	65.6
5	Unknown	68.89 mVS	103.3

## Notes

Mark Henson  
Jefferson Barracks, Missouri

100 ppb standard



Time Printed: Dec 9,94 12:32

Sample Time: Dec 9,94 12:24

## Method

Slope Up	164.5	mV/Sec
Slope Down	493.5	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	13	ml/min
S/F Flow	13	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	24	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

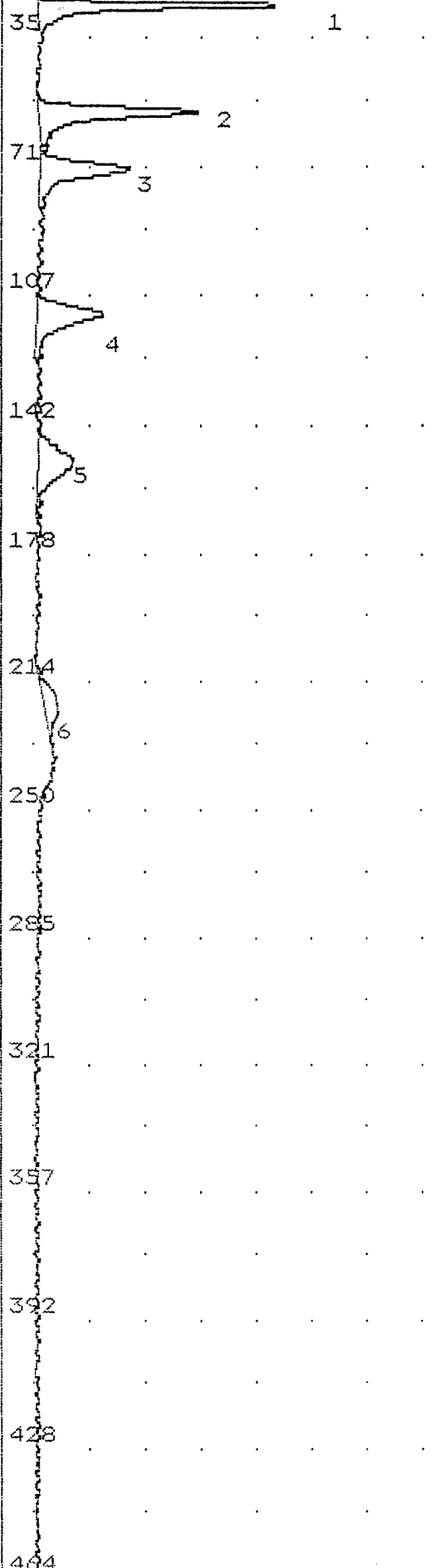
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	90.18 mVS	24.2
2	Unknown	161.8 mVS	51.2
3	Unknown	107.2 mVS	63.6

## Notes

Mark Henson  
Jefferson Barracks, Missouri

100 ppb standard

0 1 2 3 4 5  
(x 100 mV)



Time Printed: Dec 9,94 16:44

Sample Time: Dec 9,94 16:32

## Method

Slope Up 65.00 mV/Sec  
Slope Down 195.0 mV/Sec  
Min Area 1.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

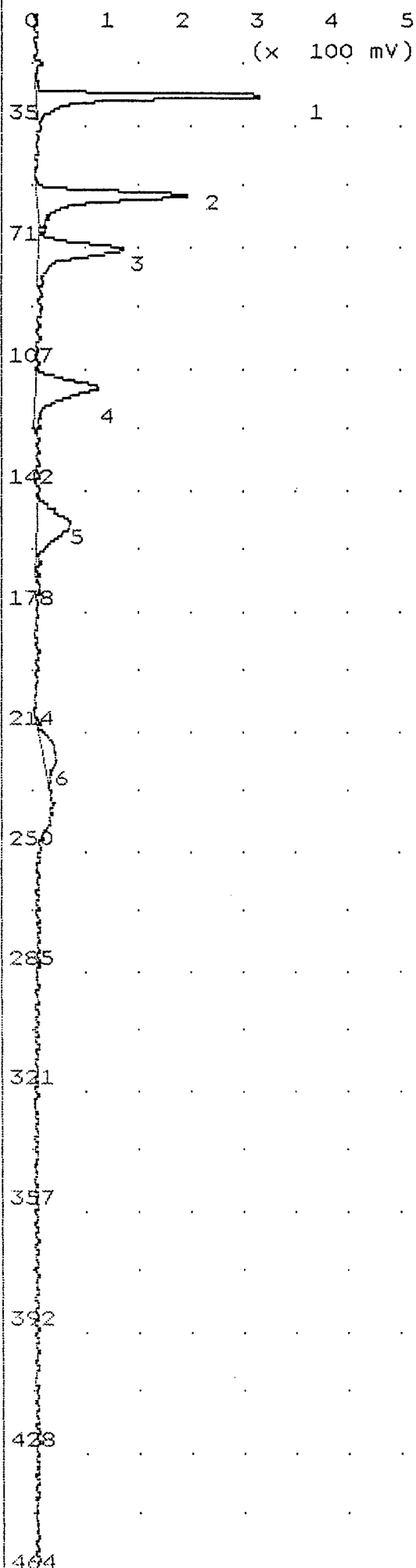
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	dce	1.000 ppm	24.5
2	benzene	1.000 ppm	53.6
3	tce	999.9 ppb	69.6
4	toluene	999.9 ppb	110.4
5	pce	999.9 ppb	149.6
6	ethylbnz,m,p-xyl	3.000 ppm	222.4

## Notes

Mark Henson  
Jefferson Barracks, Missouri

1 ppm std



Time Printed: Dec 9,94 16:41

Sample Time: Dec 9,94 16:32

## Method

Slope Up 65.00 mV/Sec  
Slope Down 195.0 mV/Sec  
Min Area 1.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

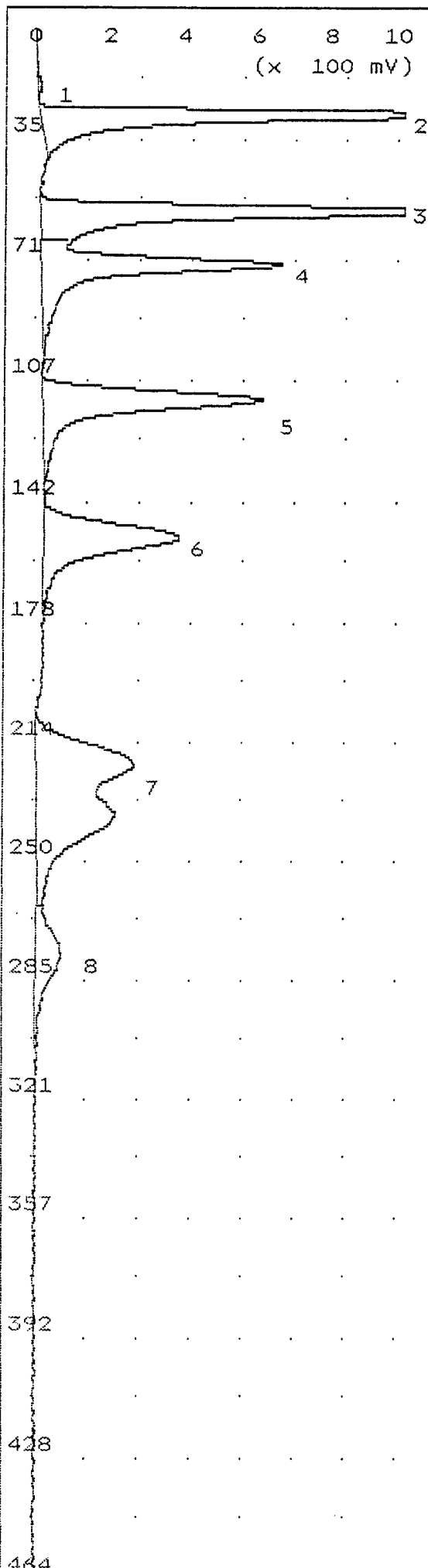
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	dce	826.8 ppb	24.5
2	benzene	732.1 ppb	53.6
3	tce	688.7 ppb	69.6
4	toluene	605.8 ppb	110.4
5	pce	611.0 ppb	149.6
6	ethylbnz,m,p-xyl	720.9 ppb	222.4

## Notes

Mark Henson  
Jefferson Barracks, Missouri

1 ppm std



Time Printed: Dec 9,94 15:33

Sample Time: Dec 9,94 15:25

## Method

Slope Up	86.50	mV/Sec
Slope Down	259.5	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	13	ml/min
B/F Flow	13	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	500.0	sec

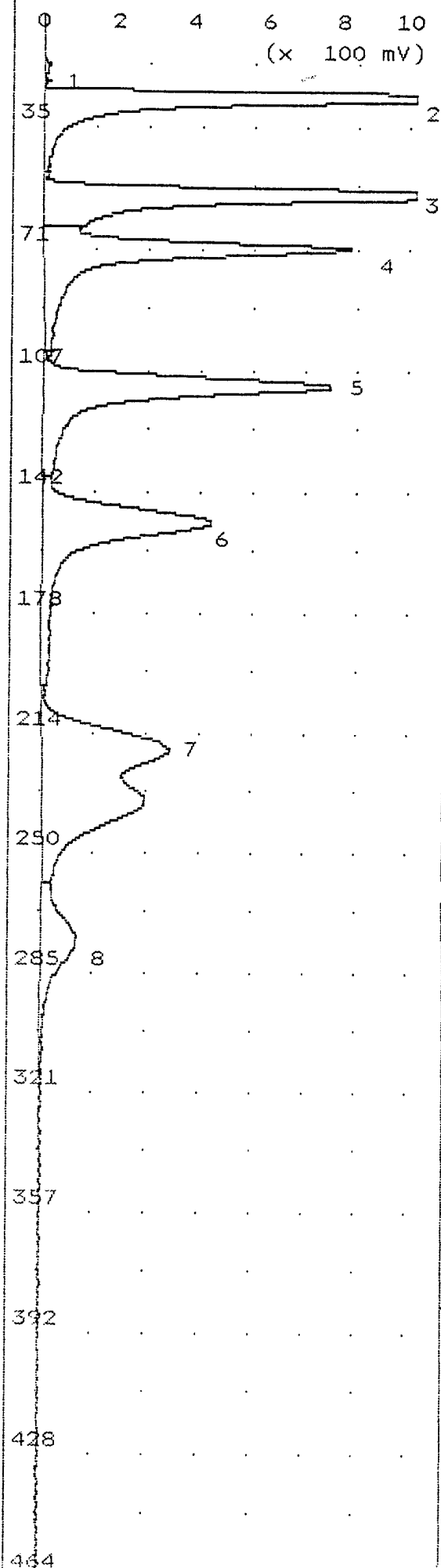
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	54.61 mVS	16.7
2	dce	6.788 ppm	25.9
3	benzene	5.744 ppm	54.6
4	tce	4.899 ppm	70.5
5	toluene	4.970 ppm	110.4
6	pce	5.093 ppm	151.0
7	ethylbnz,m,p-xyl	17.42 ppm	219.2
8	o-xylene	6.028 ppm	276.5

## Notes

Mark Henson  
Jefferson Barracks, Missouri

10 ppm std



Time Printed: Dec 9,94 15:12

Sample Time: Dec 9,94 15:04

## Method

Slope Up	15.50	mV/Sec
Slope Down	46.50	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	13	ml/min
B/F Flow	13	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	70.18 mVS	15.2
2	dce	7.668 ppm	24.6
3	benzene	6.885 ppm	53.2
4	tce	6.436 ppm	68.8
5	toluene	7.106 ppm	109.3
6	pce	7.760 ppm	149.0
7	ethylbnz,m,p-xyl	22.50 ppm	217.2
8	o-xylene	9.110 ppm	272.5

## Notes

Mark Henson  
Jefferson Barracks, Missouri

10 ppm standard

0 1 2 3 4 5  
(x 100 mV)

35 1 2

71 3 4

107 5

142 6

178 7

214 8

250

285

321

357

392

428

464

Time Printed: Dec 9,94 15:02

Sample Time: Dec 9,94 14:50

## Method

Slope Up 13.00 mV/Sec

Slope Down 39.00 mV/Sec

Min Area 1.000 mVSec

Min Height 1.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 13 ml/min

B/F Flow 13 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

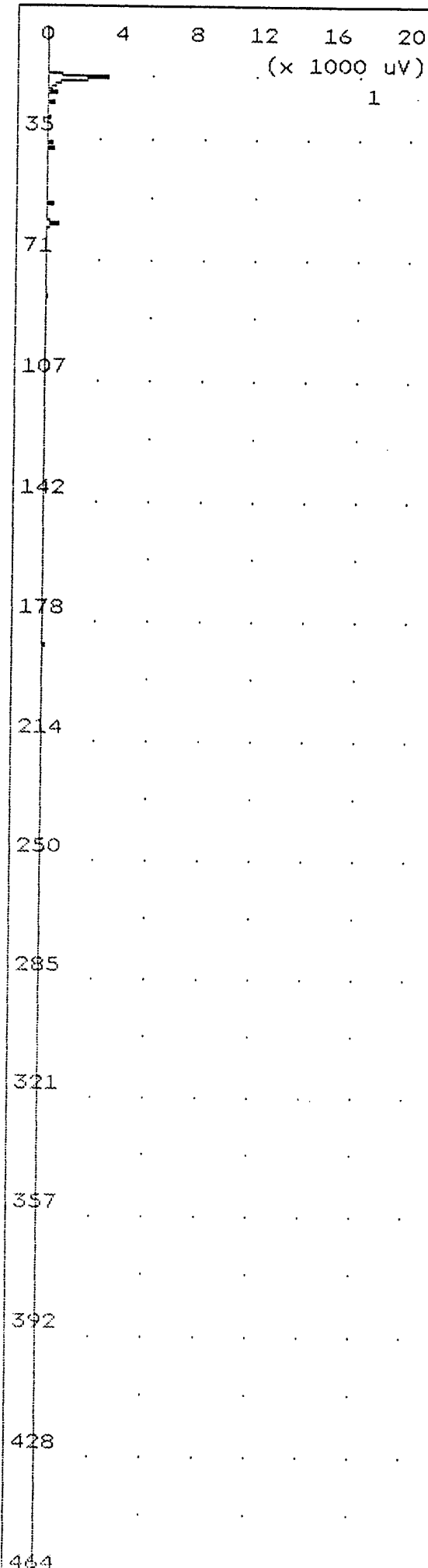
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.50 mVS	15.6
2	dce	1.000 ppm	23.8
3	benzene	1.000 ppm	51.8
4	tce	1.000 ppm	68.6
5	toluene	1.000 ppm	108.6
6	pce	1.000 ppm	149.0
7	ethylbnz,m,p-xyl	3.000 ppm	216.4
8	o-xylene	1.000 ppm	275.2

## Notes

Mark Henson

Jefferson Barracks, Missouri

10 ppm standard



Time Printed: Dec 9,94 15:23

Sample Time: Dec 9,94 15:14

## Method

Slope Up	13.50	mV/Sec
Slope Down	40.50	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	13	ml/min
B/F Flow	13	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	16.69 mVS	15.5

## Notes

Mark Henson  
Jefferson Barracks, Missouri

air blank

0 4 8 12 16 20  
(x 1000 uV)  
1

33

71

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 9,94 15:46

Sample Time: Dec 9,94 15:37

Method

Slope Up 14.50 mV/Sec

Slope Down 43.50 mV/Sec

Min Area 1.000 mVSec

Min Height 1.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 13 ml/min

B/F Flow 13 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 33 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

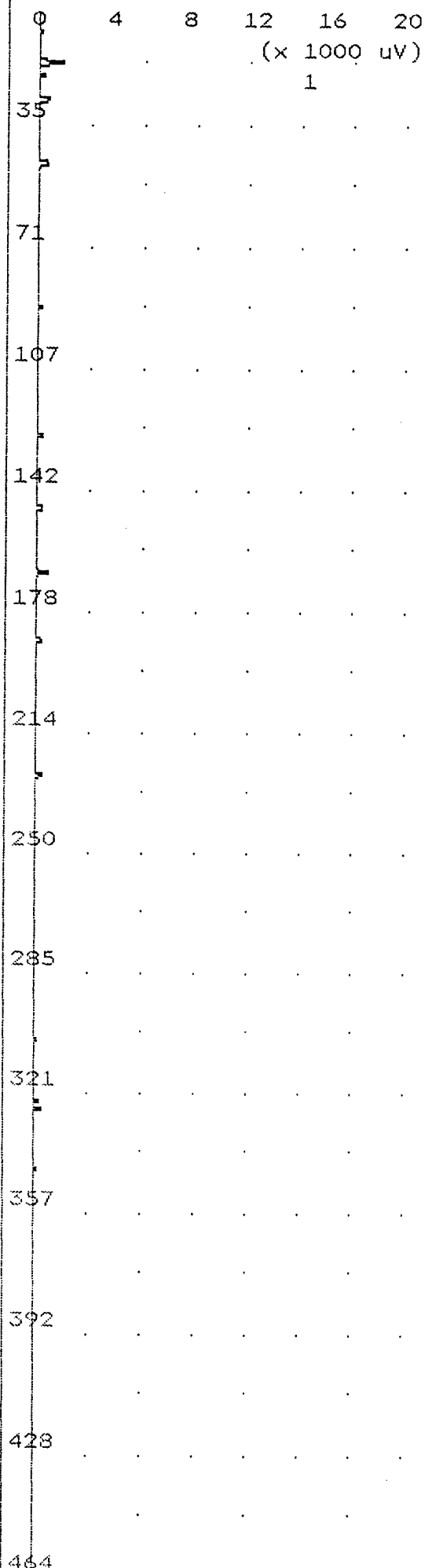
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	50.14 mVS	14.0

Notes

Mark Henson

Jefferson Barracks, Missouri

air blank



Time Printed: Dec 9,94 16:54

Sample Time: Dec 9,94 16:46

## Method

Slope Up	17.50	mV/Sec
Slope Down	52.50	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	13	ml/min
B/F Flow	13	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

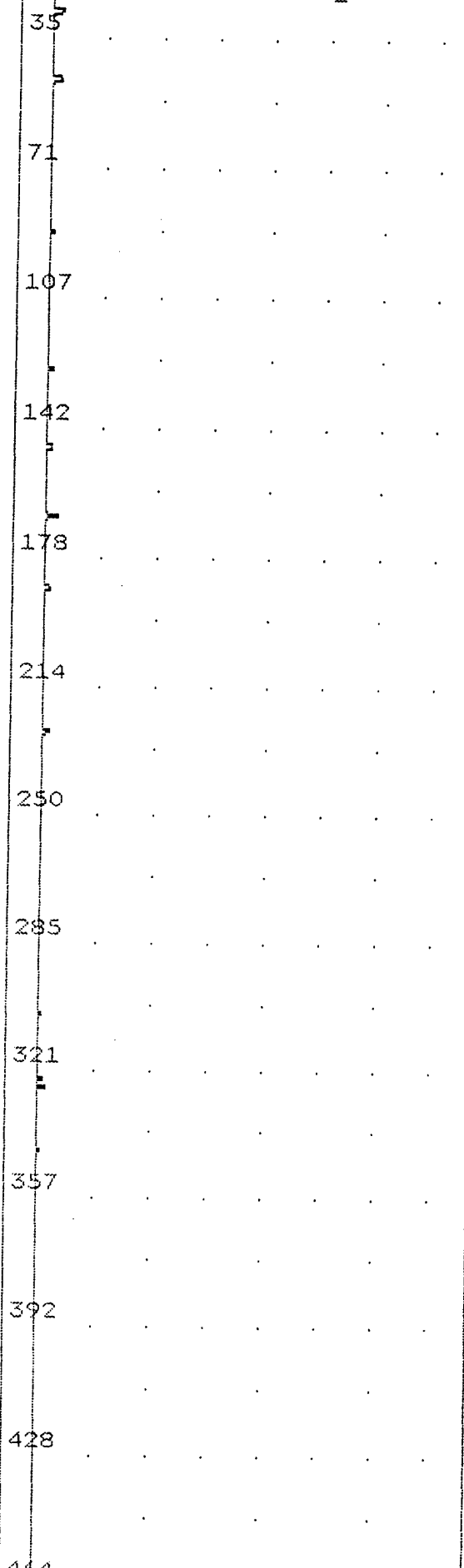
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.392 mVS	15.0

## Notes

Mark Henson  
Jefferson Barracks, Missouri

~~1 ppm std~~  
AIR BLANK

0 4 8 12 16 20  
(x 1000 uV)  
1



Time Printed: Dec 9,94 17:02

Sample Time: Dec 9,94 16:46

## Method

Slope Up 17.50 mV/Sec  
Slope Down 52.50 mV/Sec  
Min Area 1.000 mVSec  
Min Height 1.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 13 ml/min  
B/F Flow 13 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

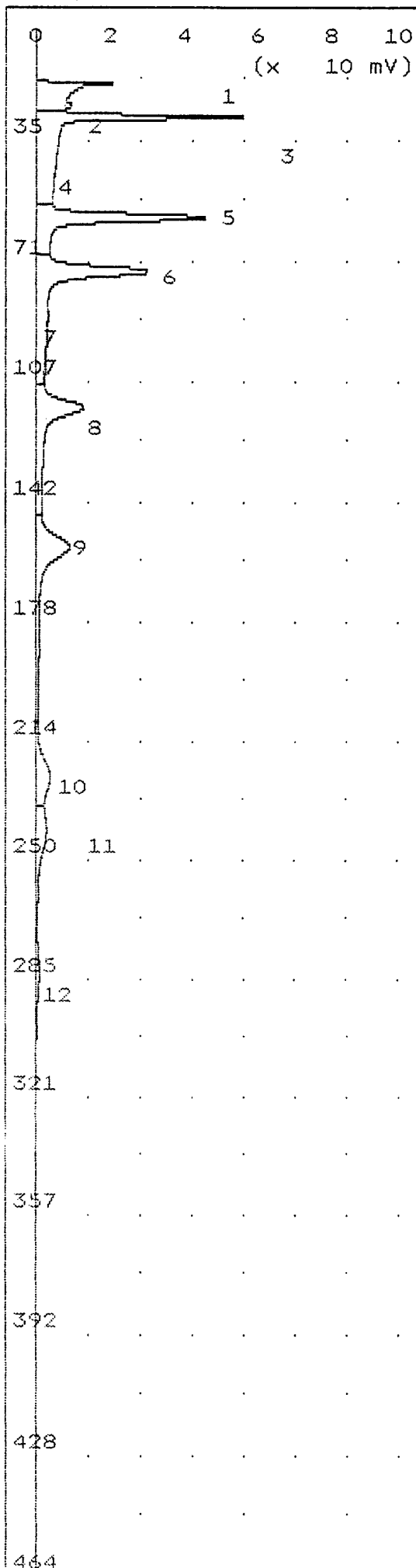
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	5.392 mVS	15.0

## Notes

Mark Henson  
Jefferson Barracks, Missouri

air blank



Time Printed: Dec 11,94 02:57

Sample Time: Dec 11,94 02:44

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 26 C  
Max Gain 1000  
Analysis Time 500.0 sec

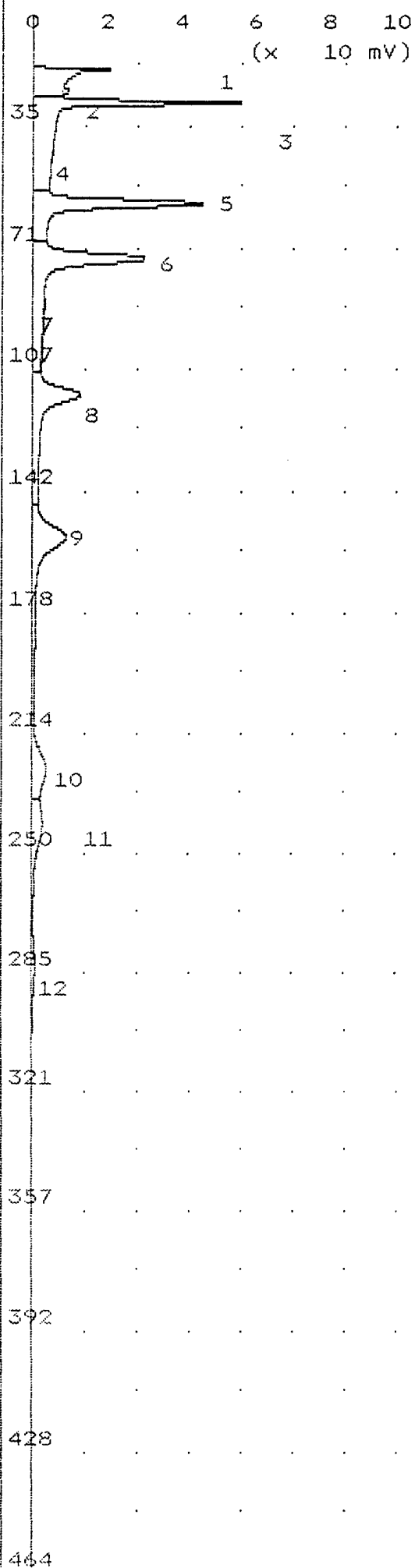
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	96.35 mVS	16.4
2	Unknown	2.102 mVS	22.8
3	dce	100.0 ppb	26.4
4	Unknown	0.372 mVS	40.7
5	benzene	100.0 ppb	55.9
6	tce	100.0 ppb	70.6
7	Unknown	4.313 mVS	84.8
8	toluene	100.0 ppb	112.4
9	pce	100.0 ppb	153.8
10	ethylbenzene	100.0 ppb	223.0
11	m,p-xylene	200.0 ppb	238.6
12	o-xylene	100.0 ppb	281.3

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb standard



Time Printed: Dec 11,94 02:53

Sample Time: Dec 11,94 02:44

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 25 C  
Max Gain 1000  
Analysis Time 500.0 sec

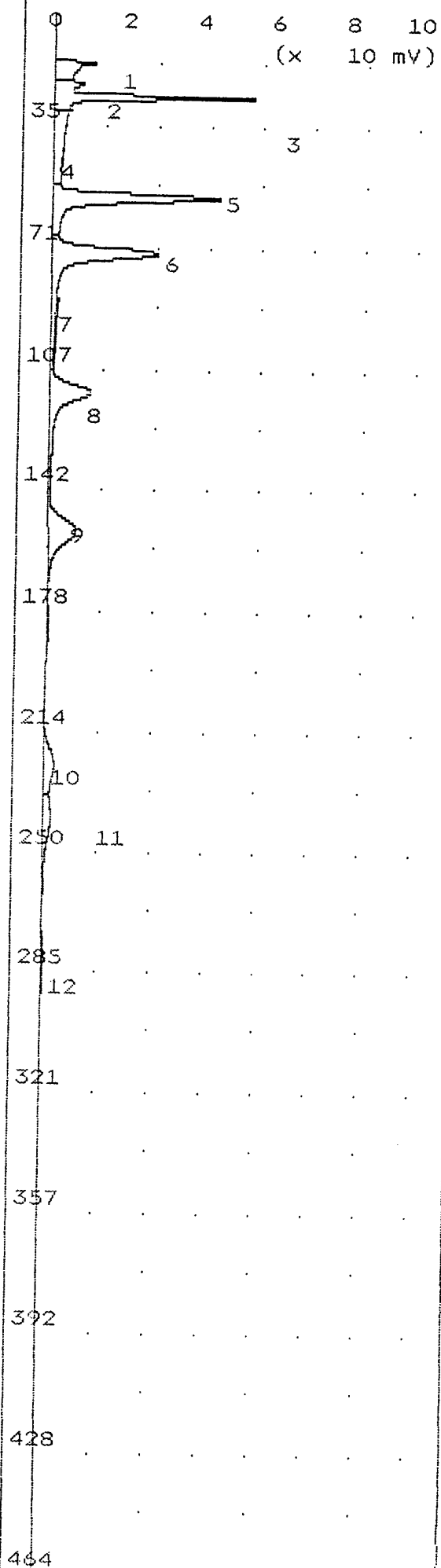
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	96.35 mVS	16.4
2	Unknown	2.102 mVS	22.8
3	Unknown	248.0 mVS	26.4
4	Unknown	0.372 mVS	40.7
5	Unknown	184.5 mVS	55.9
6	Unknown	242.8 mVS	70.6
7	Unknown	4.313 mVS	84.8
8	Unknown	157.9 mVS	112.4
9	Unknown	163.9 mVS	153.8
10	Unknown	68.98 mVS	223.0
11	Unknown	73.57 mVS	238.6
12	Unknown	67.38 mVS	281.3

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb standard



Time Printed: Dec 11,94 04:54

Sample Time: Dec 11,94 04:46

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

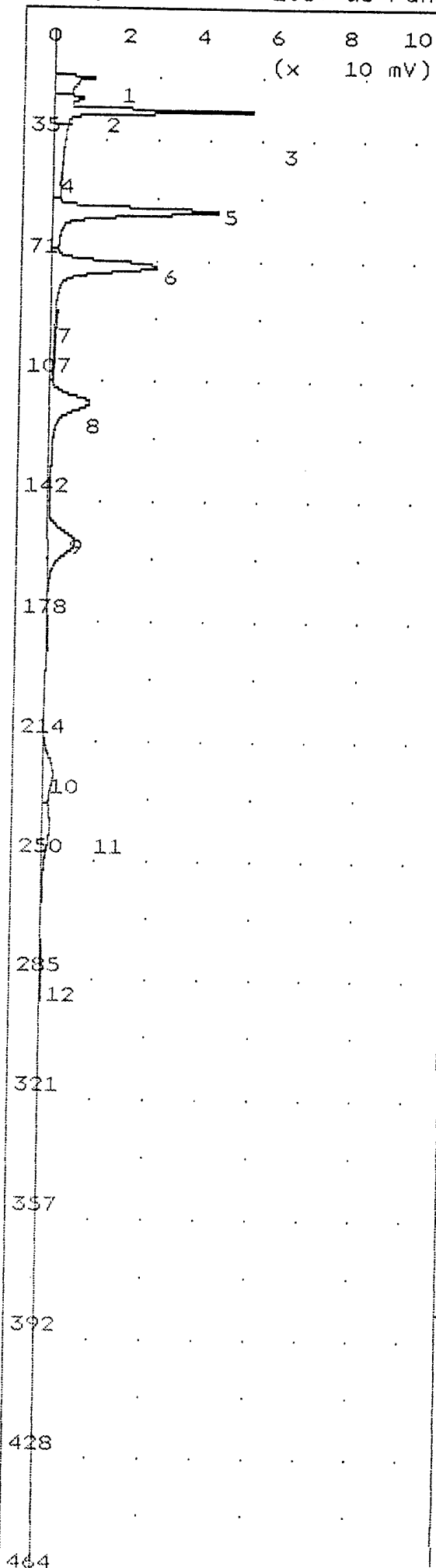
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	41.87 mVS	14.7
2	Unknown	21.24 mVS	21.2
3	dce	67.34 ppb	24.9
4	Unknown	0.023 mVS	39.0
5	benzene	84.62 ppb	54.4
6	tce	69.11 ppb	69.4
7	Unknown	3.597 mVS	84.1
8	toluene	57.43 ppb	111.4
9	pce	44.99 ppb	153.0
10	ethylbenzene	50.42 ppb	221.8
11	m,p-xylene	99.55 ppb	237.4
12	o-xylene	22.11 ppb	280.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb standard



Time Printed: Dec 11,94 04:58

Sample Time: Dec 11,94 04:46

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

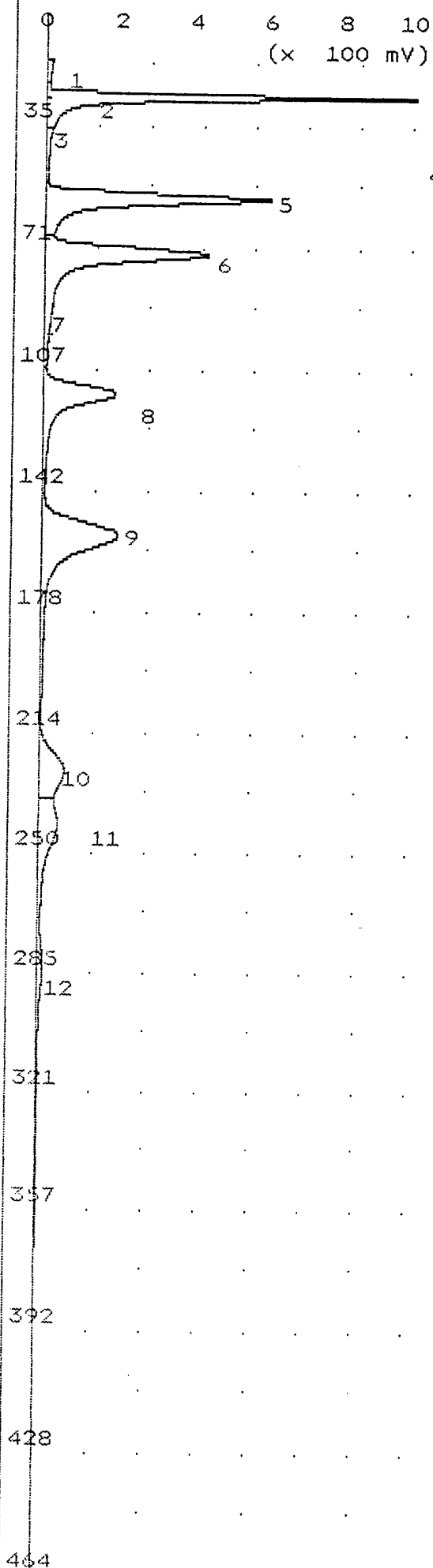
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	41.87 mVS	14.7
2	Unknown	21.24 mVS	21.2
3	dce	100.0 ppb	24.9
4	Unknown	0.023 mVS	39.0
5	benzene	100.0 ppb	54.4
6	tce	99.99 ppb	69.4
7	Unknown	3.597 mVS	84.1
8	toluene	99.99 ppb	111.4
9	pce	100.0 ppb	153.0
10	ethylbenzene	99.99 ppb	221.8
11	m,p-xylene	200.0 ppb	237.4
12	o-xylene	100.0 ppb	280.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb standard



Time Printed: Dec 11,94 03:10

Sample Time: Dec 11,94 02:59

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	27	C
Max Gain	1000	
Analysis Time	500.0	sec

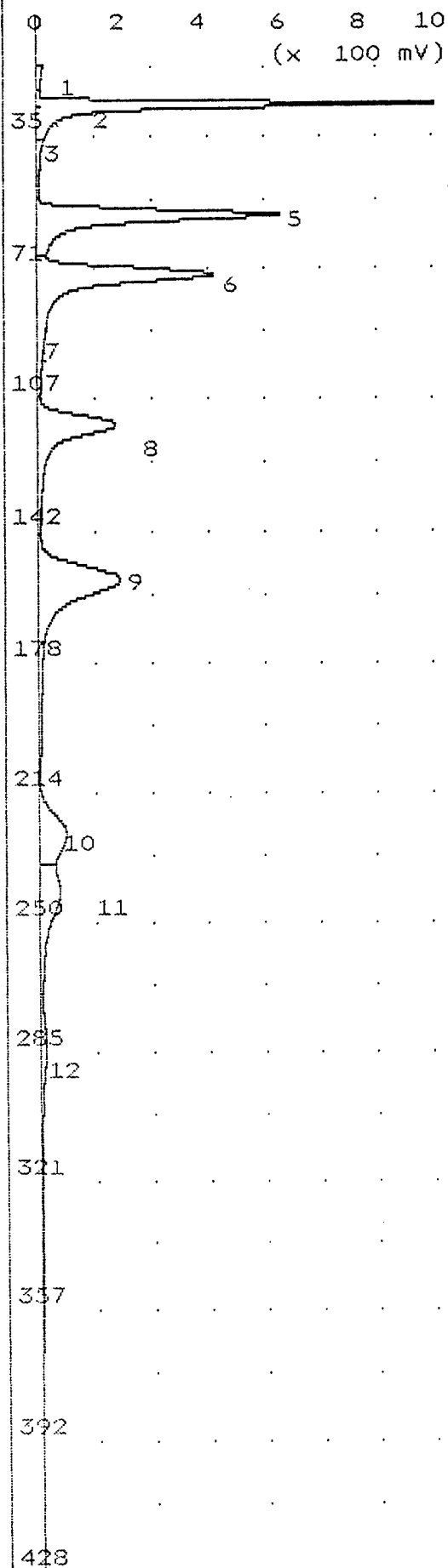
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	23.58 mVS	14.3
2	Unknown	68.93 mVS	16.0
3	Unknown	33.78 mVS	20.8
4	dce	1.000 ppm	24.8
5	benzene	1.000 ppm	54.6
6	tce	1.000 ppm	70.8
7	Unknown	5.378 mVS	84.1
8	toluene	1.000 ppm	111.3
9	pce	1.000 ppm	151.8
10	ethylbenzene	1.000 ppm	223.2
11	m,p-xylene	2.000 ppm	238.8
12	o-xylene	1.005 ppm	281.6

## Notes

Jefferson Barracks, Missouri  
Mark Henson

1 ppm standard



Time Printed: Dec 11,94 03:07

Sample Time: Dec 11,94 02:59

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 27 C  
Max Gain 1000  
Analysis Time 500.0 sec

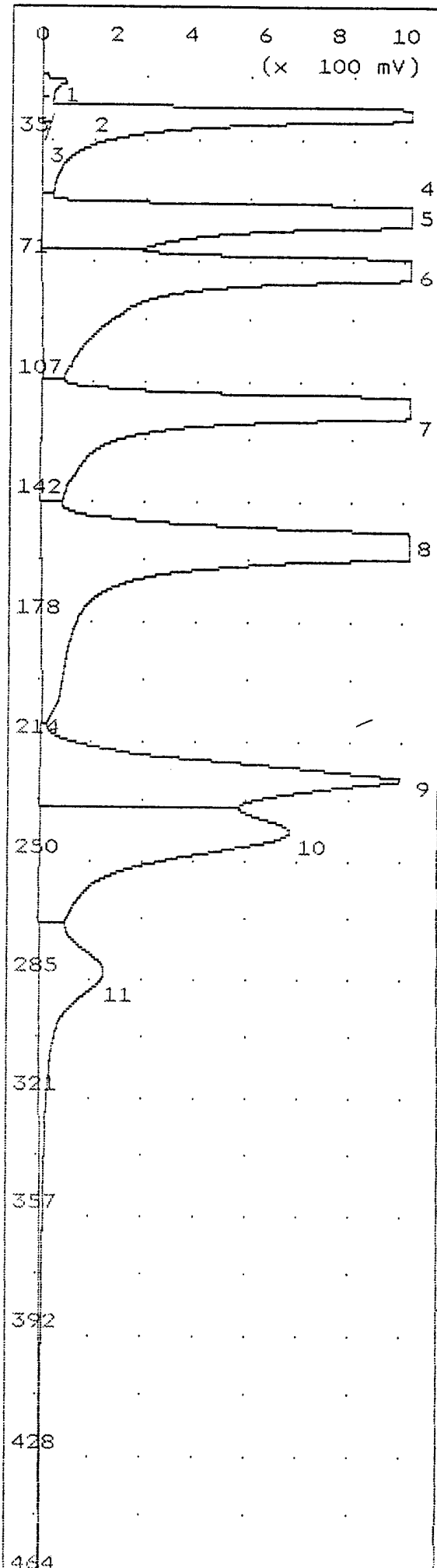
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	23.58 mVS	14.3
2	Unknown	68.93 mVS	16.0
3	Unknown	33.78 mVS	20.8
4	dce	1.074 ppm	24.8
5	benzene	1.361 ppm	54.6
6	tce	1.157 ppm	70.8
7	Unknown	5.378 mVS	84.1
8	toluene	1.049 ppm	111.3
9	pce	1.567 ppm	151.8
10	ethylbenzene	1.329 ppm	223.2
11	m,p-xylene	2.640 ppm	238.8
12	o-xylene	1.024 ppm	281.6

## Notes

Jefferson Barracks, Missouri  
Mark Henson

1 ppm standard



Time Printed: Dec 11,94 03:27

Sample Time: Dec 11,94 03:15

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 28 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

## Peak Report

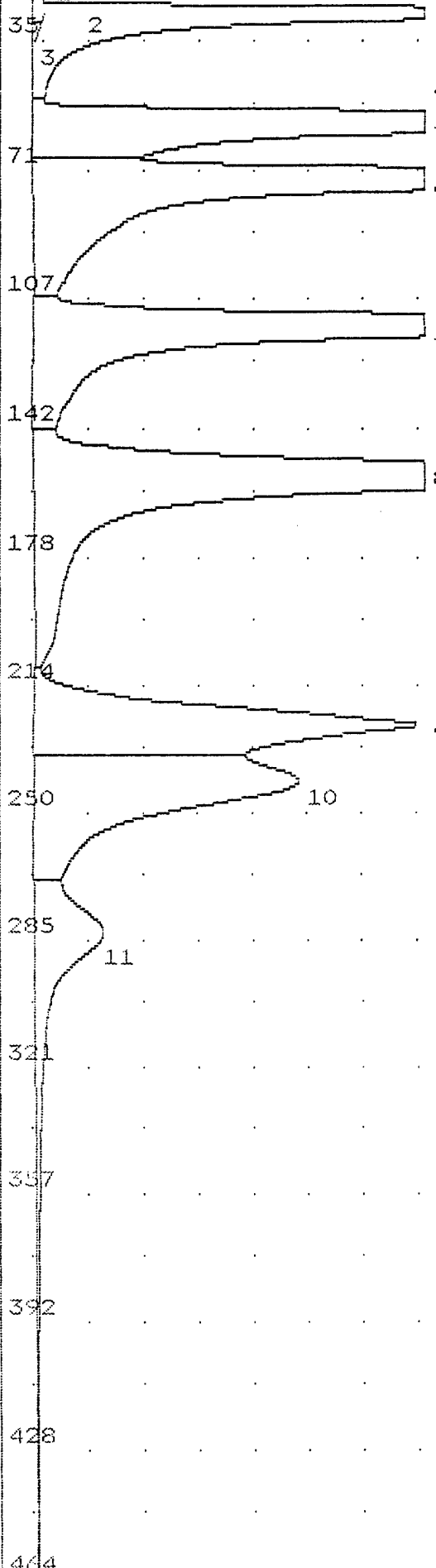
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.71 mVS	14.5
2	Unknown	296.8 mVS	16.2
3	Unknown	2.039 mVS	20.9
4	dce	10.00 ppm	25.9
5	benzene	10.00 ppm	55.7
6	tce	10.00 ppm	71.4
7	toluene	10.00 ppm	112.5
8	pce	10.00 ppm	153.6
9	ethylbenzene	10.00 ppm	223.0
10	m,p-xylene	20.00 ppm	238.4
11	o-xylene	10.03 ppm	281.0

## Notes

Jefferson Barracks, Missouri  
Mark Henson

10 ppm standard

0 2 4 6 8 10  
(x 100 mV)



Time Printed: Dec 11,94 03:23

Sample Time: Dec 11,94 03:15

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 28 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

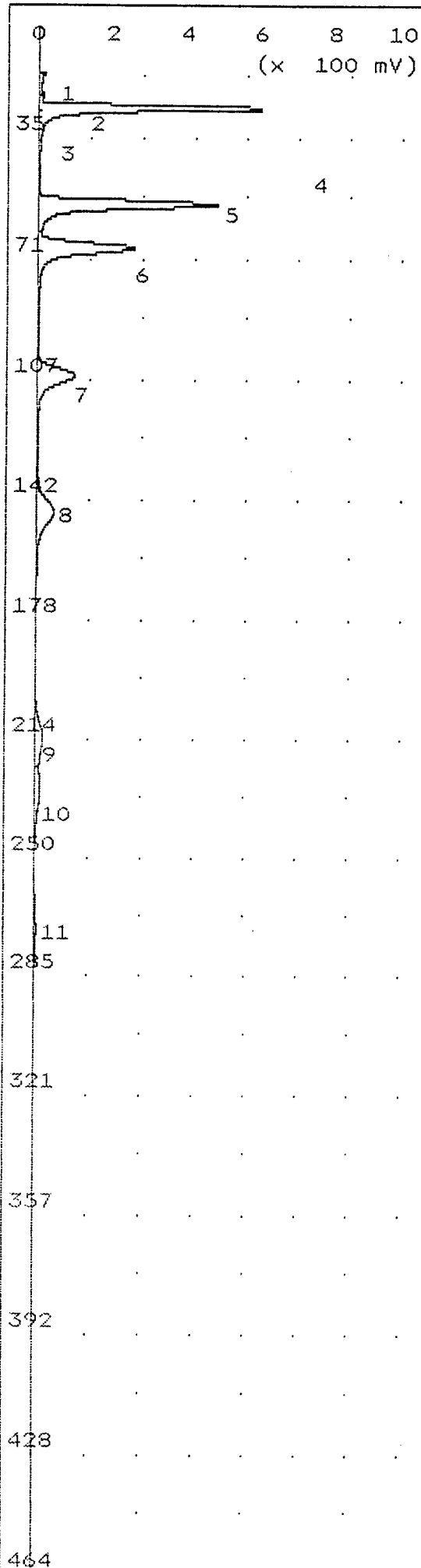
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.71 mVS	14.5
2	Unknown	296.8 mVS	16.2
3	Unknown	2.039 mVS	20.9
4	dce	6.551 ppm	25.9
5	benzene	8.459 ppm	55.7
6	toe	8.377 ppm	71.4
7	toluene	12.43 ppm	112.5
8	pce	8.623 ppm	153.6
9	ethylbenzene	12.53 ppm	223.0
10	m,p-xylene	24.10 ppm	238.4
11	o-xylene	7.765 ppm	281.0

## Notes

Jefferson Barracks, Missouri  
Mark Henson

10 ppm standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Dec 11,94 20:07

Sample Time: Dec 11,94 19:54

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 29 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

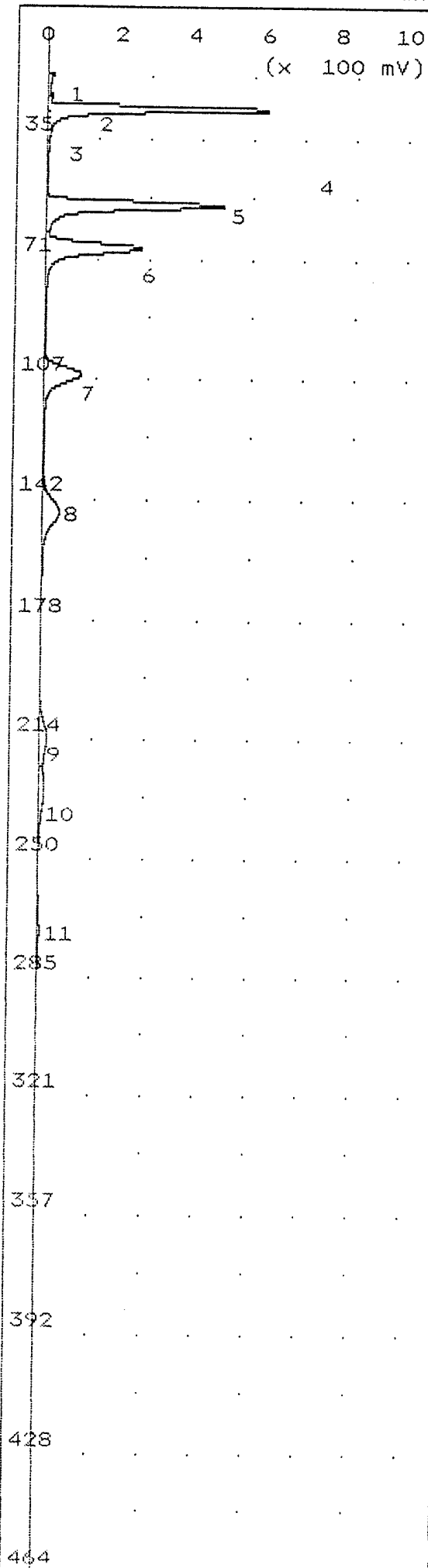
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	22.49 mVS	14.4
2	Unknown	44.79 mVS	15.9
3	Unknown	41.58 mVS	20.7
4	dce	1.000 ppm	24.5
5	benzene	1.000 ppm	53.0
6	tce	1.000 ppm	65.7
7	toluene	1.000 ppm	103.6
8	pce	1.001 ppm	144.0
9	ethylbenzene	1.000 ppm	209.0
10	m,p-xylene	2.002 ppm	226.8
11	o-xylene	1.010 ppm	269.0

PPM1 = Alarm 1 PPM2 = Alarm2

Notes

Jefferson Barracks, Missouri  
 Mark Henson

1 ppm standard



Time Printed: Dec 11,94 20:03

Sample Time: Dec 11,94 19:54

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 28 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	22.49 mVS	14.4
2	Unknown	44.79 mVS	15.9
3	Unknown	41.58 mVS	20.7
4	dce	619.6 PPB2	24.5
5	benzene	987.1 ppb	53.0
6	tce	621.9 ppb	65.7
7	toluene	700.2 ppb	103.6
8	pce	988.6 ppb	144.0
9	ethylbenzene	1.055 ppm	209.0
10	m,p-xylene	2.120 ppm	226.8
11	o-xylene	3.299 ppm	269.0

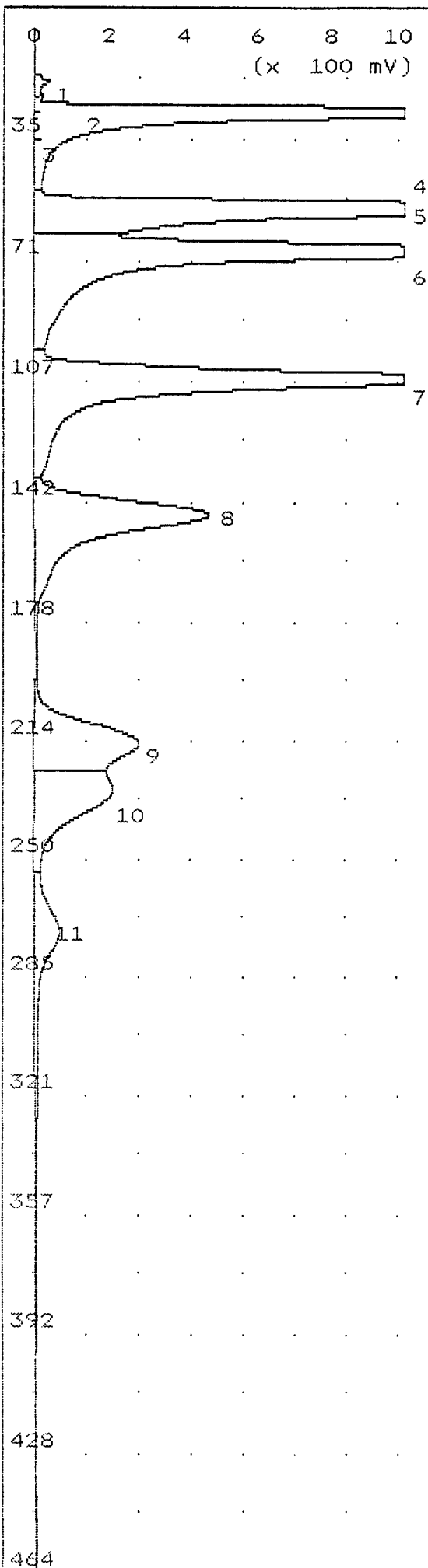
PPM1 = Alarm 1

PPM2 = Alarm2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

1 ppm standard



Time Printed: Dec 11,94 20:21

Sample Time: Dec 11,94 20:09

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	500.0	sec

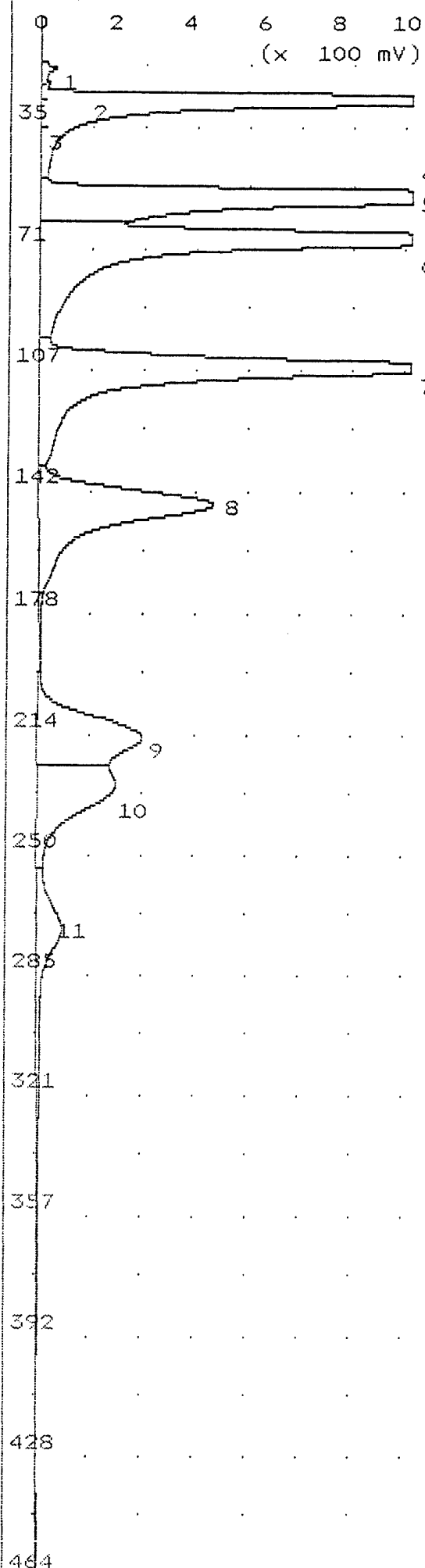
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	17.78 mVS	14.2
2	Unknown	119.9 mVS	15.3
3	Unknown	56.67 mVS	20.6
4	dce	10.00 ppm	25.1
5	benzene	10.00 ppm	53.6
6	tce	10.00 ppm	66.0
7	toluene	10.00 ppm	104.0
8	pce	10.00 ppm	144.0
9	ethylbenzene	10.00 ppm	212.6
10	m,p-xylene	20.00 ppm	226.4
11	o-xylene	10.05 ppm	269.3

## Notes

Jefferson Barracks, Missouri  
Mark Henson

10 ppm standard



Time Printed: Dec 11,94 20:18

Sample Time: Dec 11,94 20:09

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	500.0	sec

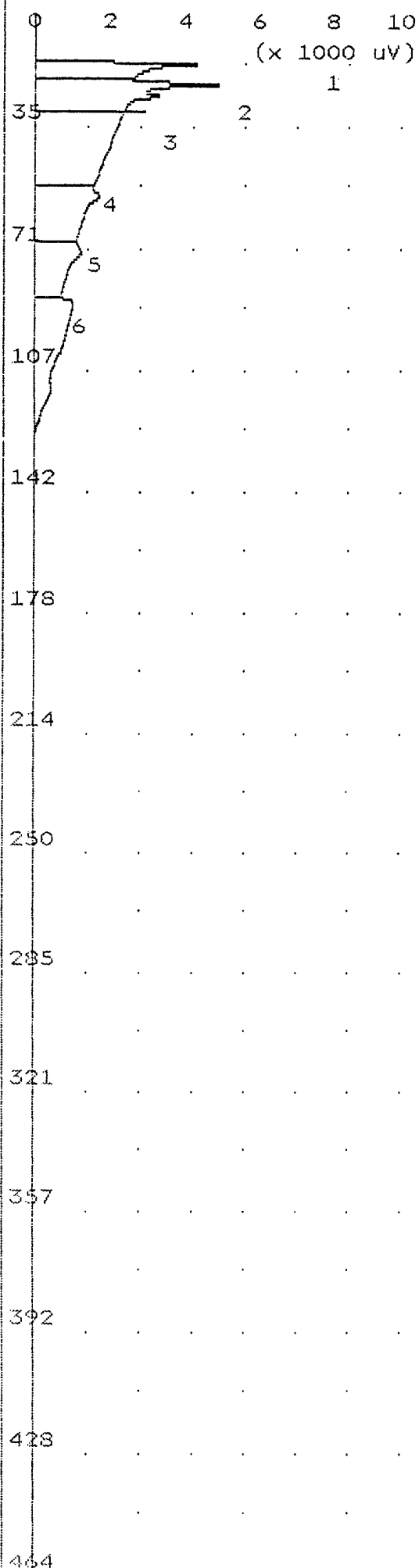
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	17.78 mVS	14.2
2	Unknown	119.8 mVS	15.3
3	Unknown	56.67 mVS	20.6
4	dce	9.505 ppm	25.1
5	benzene	8.972 ppm	53.6
6	tce	10.39 ppm	66.0
7	toluene	15.05 ppm	104.0
8	pce	9.807 ppm	144.0
9	ethylbenzene	12.71 ppm	212.6
10	m,p-xylene	23.80 ppm	226.4
11	o-xylene	5.972 ppm	269.3

## Notes

Jefferson Barracks, Missouri  
Mark Henson

10 ppm standard



Time Printed: Dec 11,94 03:38

Sample Time: Dec 11,94 03:29

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	22.15 mVS	14.6
2	Unknown	16.30 mVS	20.9
3	dce	32.34 ppb	24.2
4	benzene	18.32 ppb	53.9
5	tce	10.17 ppb	70.0
6	Unknown	50.80 mVS	85.0

## Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank

0 2 4 6 8 10  
(x 1000 uV)  
1

35 2 3

71 4 5

107 6

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 11,94 03:49

Sample Time: Dec 11,94 03:41

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 30 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

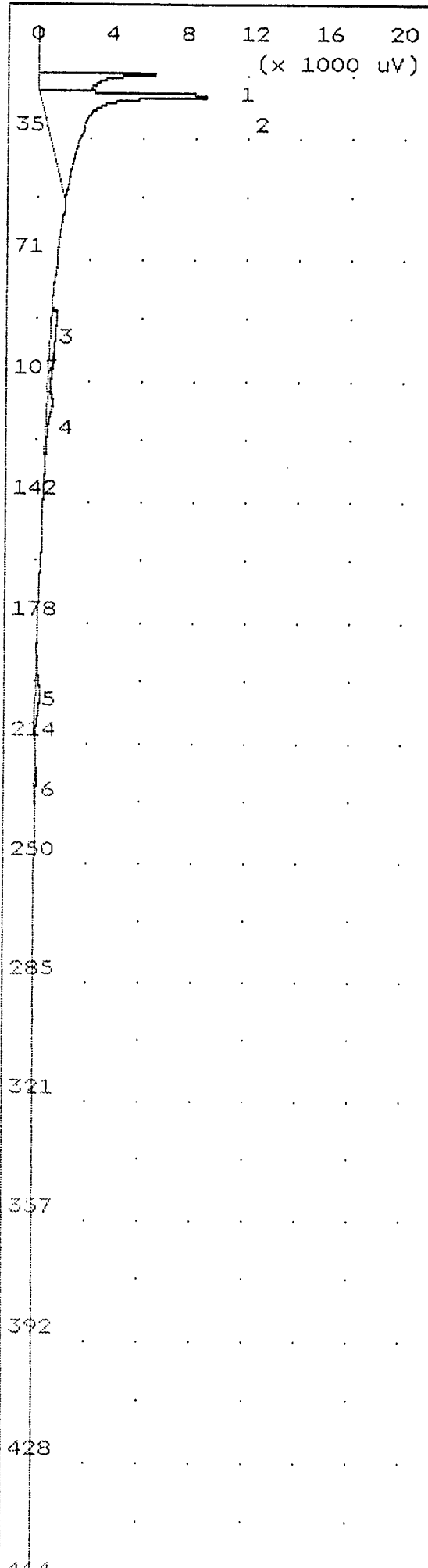
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.19 mVS	14.4
2	Unknown	68.84 mVS	20.6
3	dce	0.050 ppb	23.9
4	benzene	0.034 ppb	53.4
5	Unknown	0.157 mVS	53.4
6	Unknown	4.752 mVS	84.9

## Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Dec 11,94 05:09

Sample Time: Dec 11,94 05:00

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 31 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	23.03 mVS	14.2
2	Unknown	65.01 mVS	20.7
3	Unknown	5.563 mVS	85.3
4	toluene	2.313 ppb	111.3
5	Unknown	2.312 mVS	198.4
6	ethylbenzene	0.968 ppb	221.8

Notes

Jefferson Barracks, Missouri  
 Mark Henson

air blank

0 2 4 6 8 10  
(x 10 mV)

35 2

71

107

142

178

4

214

250

285

321

357

392

428

464

Time Printed: Dec 11,94 23:27

Sample Time: Dec 11,94 23:18

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

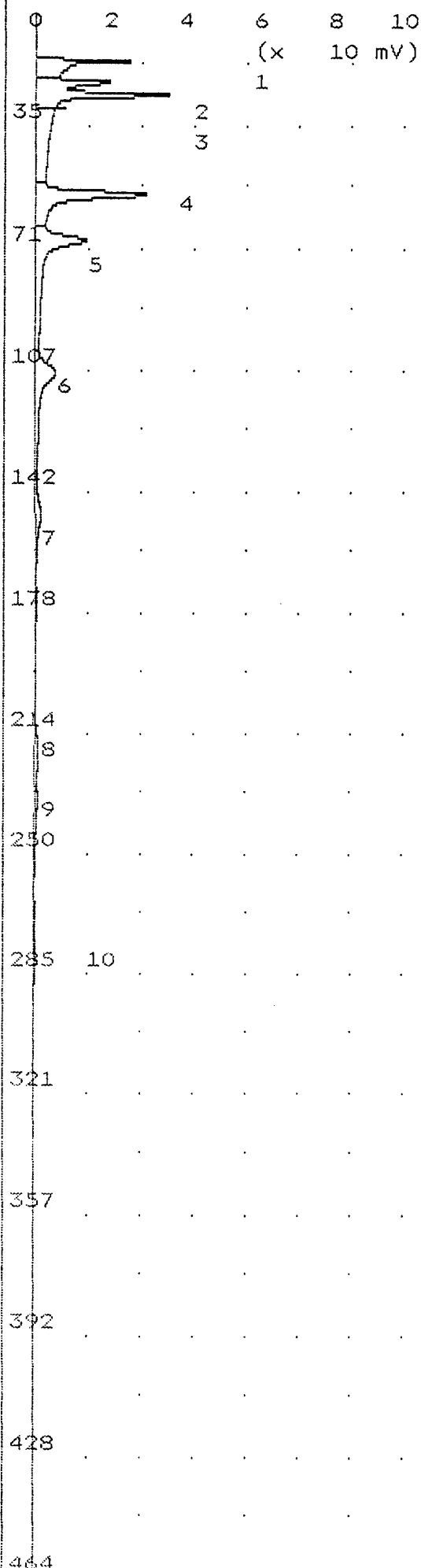
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.07 mVS	14.1
2	Unknown	326.4 mVS	20.3
3	benzene	1.332 ppb	52.8
4	Unknown	1.630 mVS	189.8

Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank



Time Printed: Dec 12,94 02:06

Sample Time: Dec 12,94 01:54

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	62.18 mVS	14.0
2	Unknown	47.35 mVS	20.4
3	dce	100.0 ppb	23.8
4	benzene	99.99 ppb	52.5
5	tce	100.0 ppb	66.5
6	toluene	100.0 ppb	105.4
7	pce	100.0 ppb	146.0
8	ethylbenzene	100.0 ppb	216.8
9	m,p-xylene	200.0 ppb	232.6
10	o-xylene	100.0 ppb	275.7

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb std

0 2 4 6 8 10  
(x 10 mV)

35 2 3

71 4

107 5

142 6

178 7

214 8

250 9

285 10

321

357

392

428

464

Time Printed: Dec 12,94 02:02

Sample Time: Dec 12,94 01:54

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

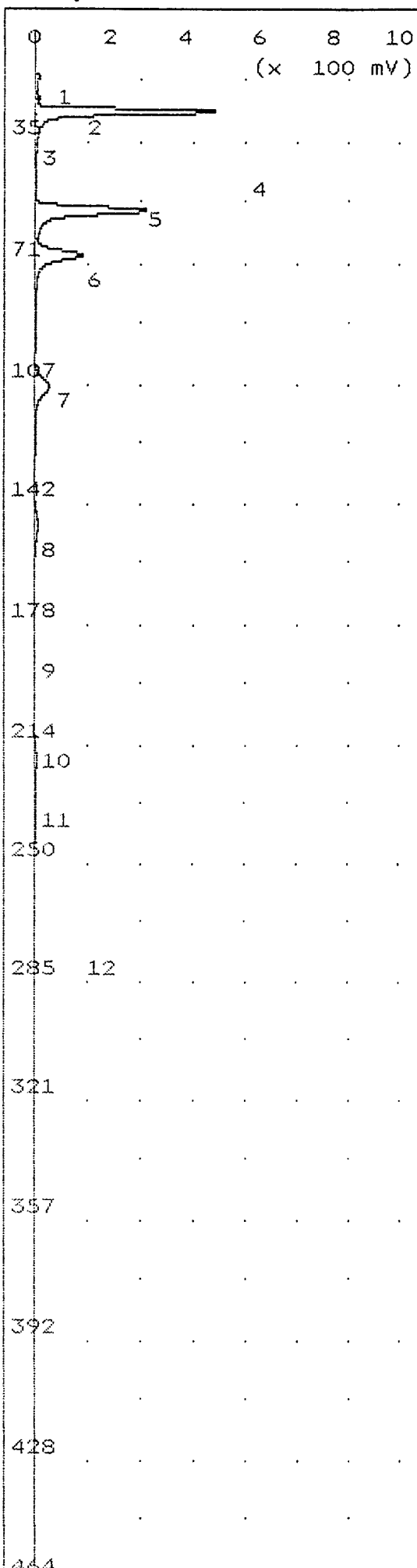
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	62.18 mVS	14.0
2	Unknown	47.35 mVS	20.4
3	dce	64.88 ppb	23.8
4	benzene	70.22 ppb	52.5
5	tce	55.21 ppb	66.5
6	toluene	57.94 ppb	105.4
7	pce	35.65 ppb	146.0
8	ethylbenzene	46.01 ppb	216.8
9	m,p-xylene	77.56 ppb	232.6
10	o-xylene	39.34 ppb	275.7

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb std



Time Printed: Dec 12,94 04:53

Sample Time: Dec 12,94 04:41

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	500.0	sec

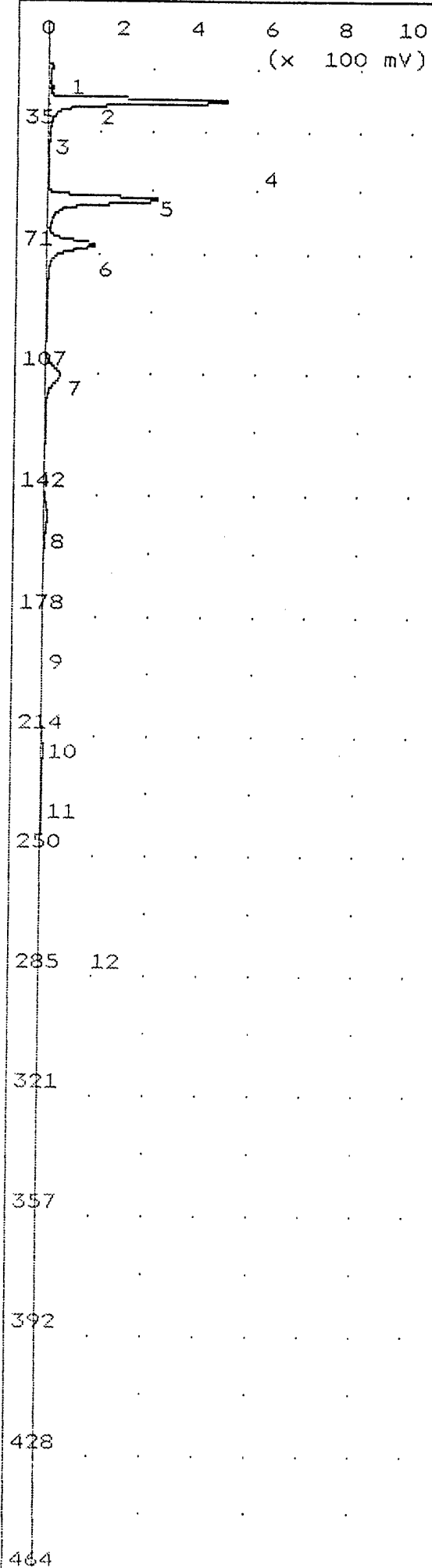
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.76 mVS	13.8
2	Unknown	37.59 mVS	15.6
3	Unknown	34.10 mVS	20.5
4	dce	999.9 ppb	24.4
5	benzene	999.9 ppb	53.4
6	tce	1.000 ppm	66.4
7	toluene	999.9 ppb	105.2
8	pce	1.000 ppm	146.8
9	Unknown	0.740 mVS	189.8
10	ethylbenzene	1.000 ppm	216.6
11	m,p-xylene	1.999 ppm	231.4
12	o-xylene	999.9 ppb	275.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

1 ppm std



Time Printed: Dec 12,94 04:50

Sample Time: Dec 12,94 04:41

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 33 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

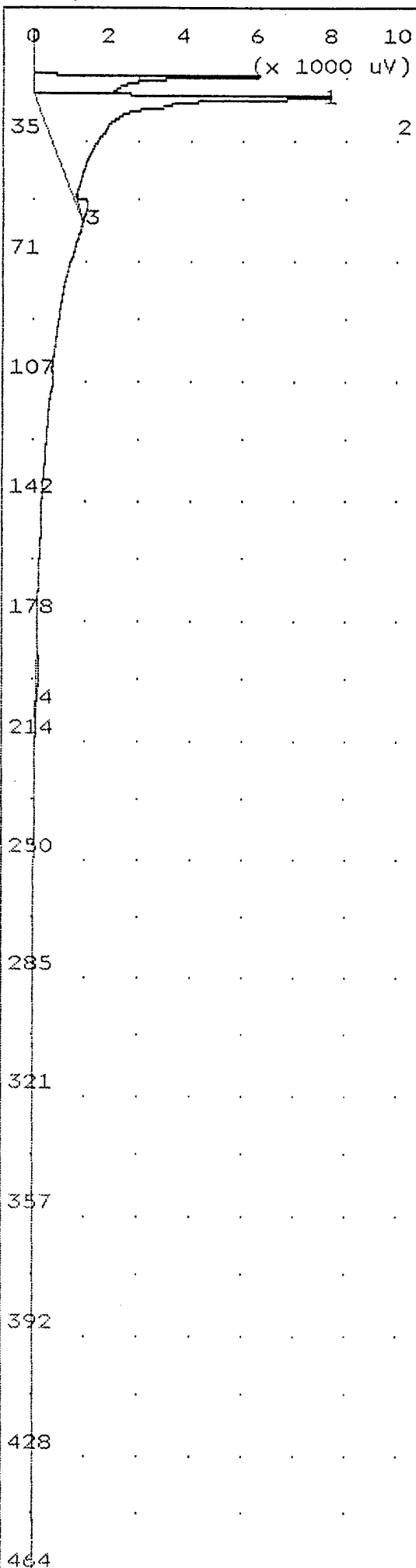
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.76 mVS	13.8
2	Unknown	37.59 mVS	15.6
3	Unknown	34.10 mVS	20.5
4	dce	786.8 ppb	24.4
5	benzene	636.5 ppb	53.4
6	tce	544.1 ppb	66.4
7	toluene	483.2 ppb	105.2
8	pce	337.3 ppb	146.8
9	Unknown	0.740 mVS	189.8
10	ethylbenzene	348.1 ppb	216.6
11	m,p-xylene	673.0 ppb	231.4
12	o-xylene	196.3 ppb	275.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

1 ppm std

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Dec 12,94 02:33

Sample Time: Dec 12,94 02:22

Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	18.34 mVS	14.0
2	Unknown	52.66 mVS	20.5
3	benzene	1.135 ppb	52.1
4	Unknown	0.663 mVS	191.4

Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank

0 2 4 6 8 10  
(x 10 mV)

35 1 2 3

71 4 5

107 6

142 7

178 8

214 9

250 10

285 11

321

357

392

428

464

Time Printed: Dec 13,94 07:54

Sample Time: Dec 13,94 07:40

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 28 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

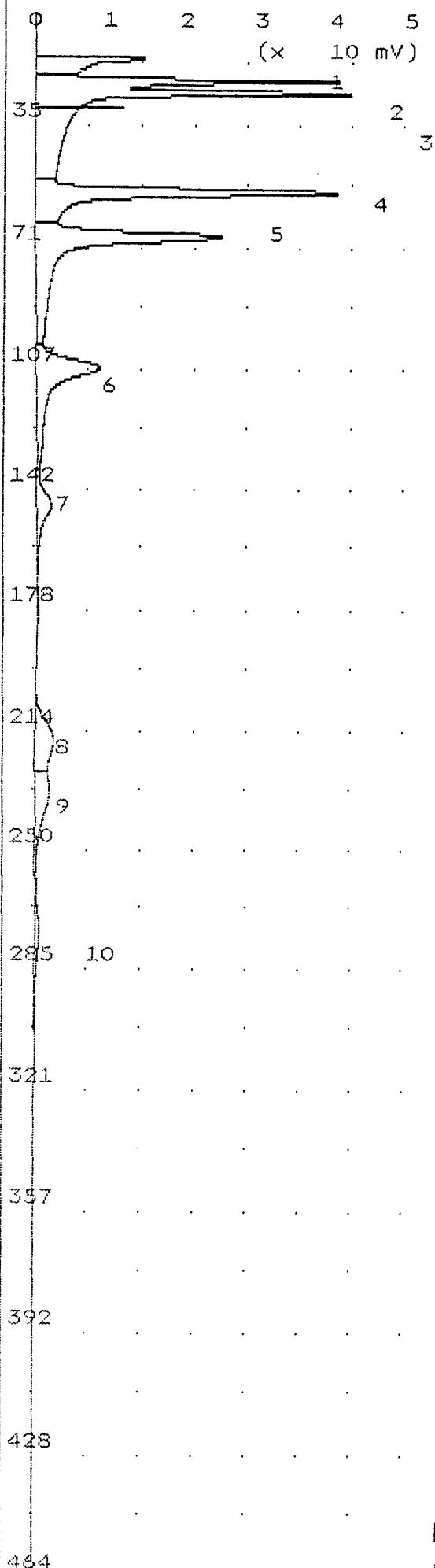
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	52.95 mVS	14.0
2	Unknown	25.76 mVS	20.2
3	dce	100.0 ppb	23.2
4	benzene	100.0 ppb	52.1
5	tce	100.0 ppb	63.6
6	toluene	100.0 ppb	102.4
7	pce	100.0 ppb	143.0
8	Unknown	1.615 mVS	186.2
9	ethylbenzene	100.0 ppb	210.2
10	m,p-xylene	200.0 ppb	225.2
11	o-xylene	100.0 ppb	267.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb standard

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Dec 13,94 11:01  
 Sample Time: Dec 13,94 10:53  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report			
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	51.47 mVS	13.6
2	Unknown	81.96 mVS	20.2
3	dce	117.4 ppb	23.9
4	benzene	96.27 ppb	52.8
5	tce	90.07 ppb	64.9
6	toluene	76.21 ppb	104.4
7	pce	41.31 ppb	142.5
8	ethylbenzene	54.85 ppb	214.8
9	m,p-xylene	99.21 ppb	229.6
10	o-xylene	39.71 ppb	273.3

Notes  
 Jefferson Barracks, Missouri  
 Mark Henson

~~8-1~~  
~~20-1~~ 100 PPB STD

0 1 2 3 4 5  
(x 10 mV)

35 2 3

71 4 5

107 6

142 7

178

214 8

250 9

285 10

321

357

392

428

464

Time Printed: Dec 13,94 11:04

Sample Time: Dec 13,94 10:53

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

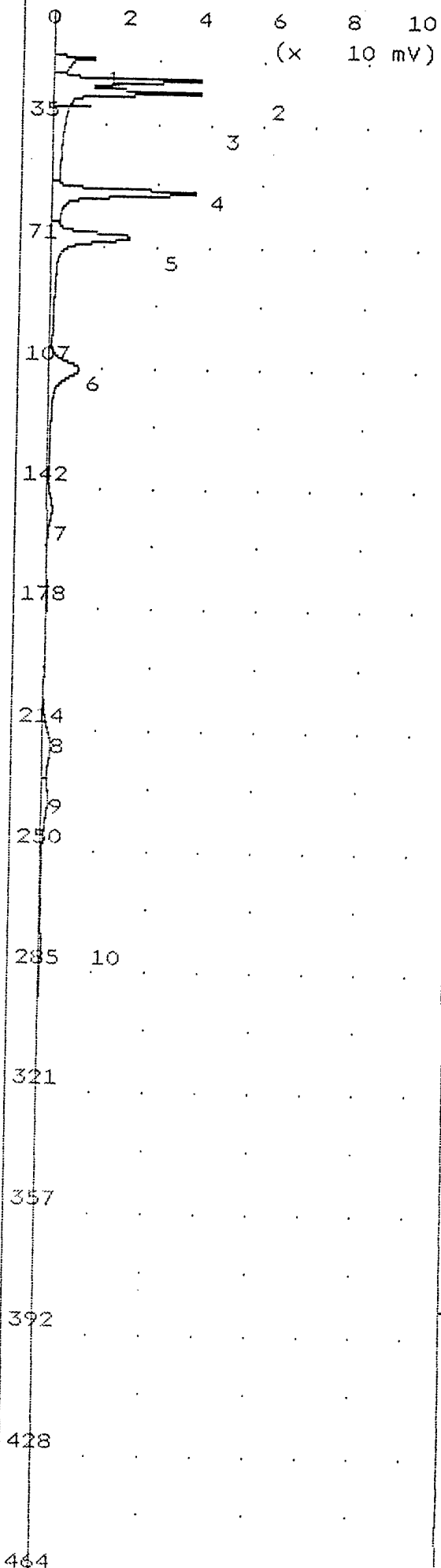
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	51.47 mVS	13.6
2	Unknown	81.96 mVS	20.2
3	dce	99.99 ppb	23.9
4	benzene	100.0 ppb	52.8
5	tce	100.0 ppb	64.9
6	toluene	100.0 ppb	104.4
7	pce	100.0 ppb	142.5
8	ethylbenzene	99.99 ppb	214.8
9	m,p-xylene	200.0 ppb	229.6
10	o-xylene	100.0 ppb	273.3

## Notes

Jefferson Barracks, Missouri

Mark Henson

~~8-1~~~~20-1~~ 100 PPB STD



Time Printed: Dec 13,94 14:50

Sample Time: Dec 13,94 14:42

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

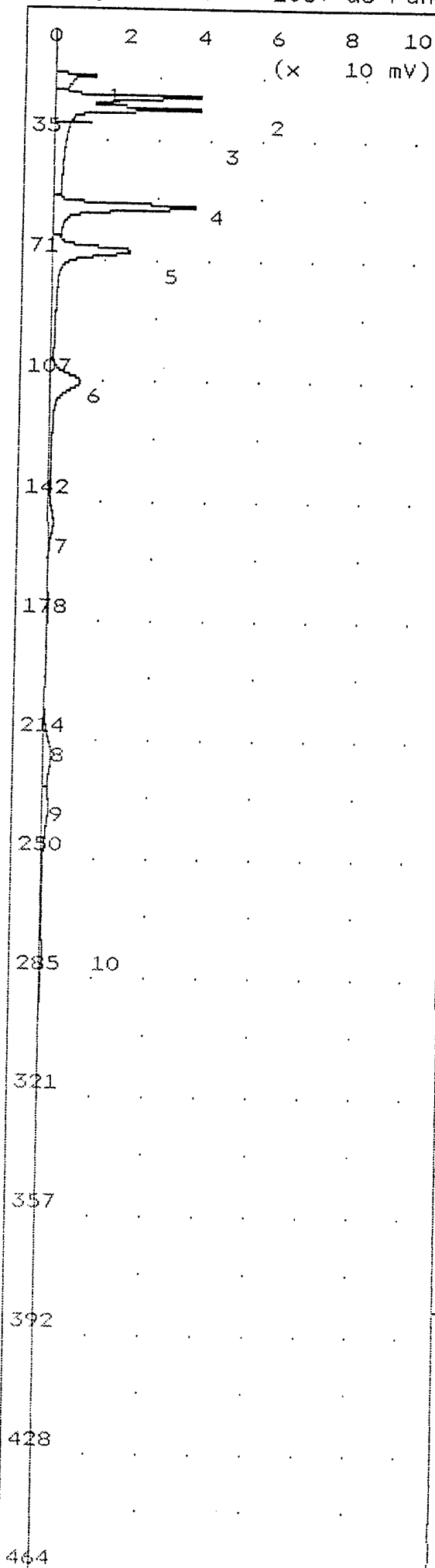
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	31.42 mVS	14.1
2	Unknown	78.03 mVS	20.1
3	dce	79.65 ppb	23.6
4	benzene	86.67 ppb	53.2
5	tce	79.14 ppb	65.7
6	toluene	85.66 ppb	105.2
7	pce	69.89 ppb	147.0
8	ethylbenzene	81.96 ppb	213.2
9	m,p-xylene	157.4 ppb	232.0
10	o-xylene	80.02 ppb	276.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb std



Time Printed: Dec 13,94 14:54

Sample Time: Dec 13,94 14:42

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 32 C  
Max Gain 1000  
Analysis Time 500.0 sec

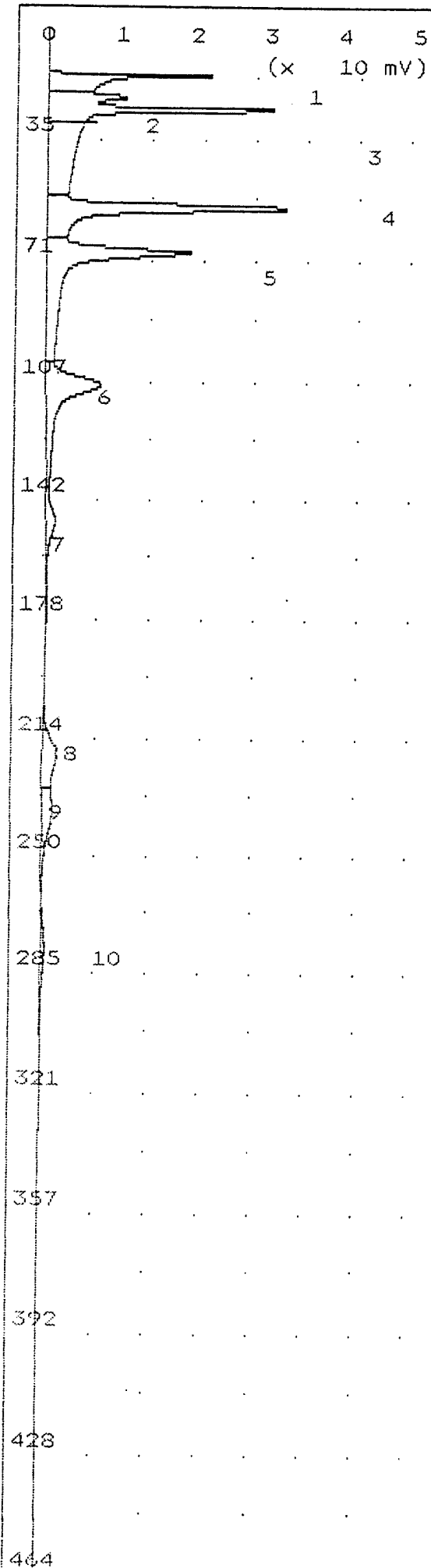
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	31.42 mVS	14.1
2	Unknown	78.03 mVS	20.1
3	dce	100.0 ppb	23.6
4	benzene	100.0 ppb	53.2
5	tce	100.0 ppb	65.7
6	toluene	100.0 ppb	105.2
7	pce	100.0 ppb	147.0
8	ethylbenzene	100.0 ppb	213.2
9	m,p-xylene	200.0 ppb	232.0
10	o-xylene	100.0 ppb	276.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb std



Time Printed: Dec 13,94 16:40

Sample Time: Dec 13,94 16:32

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

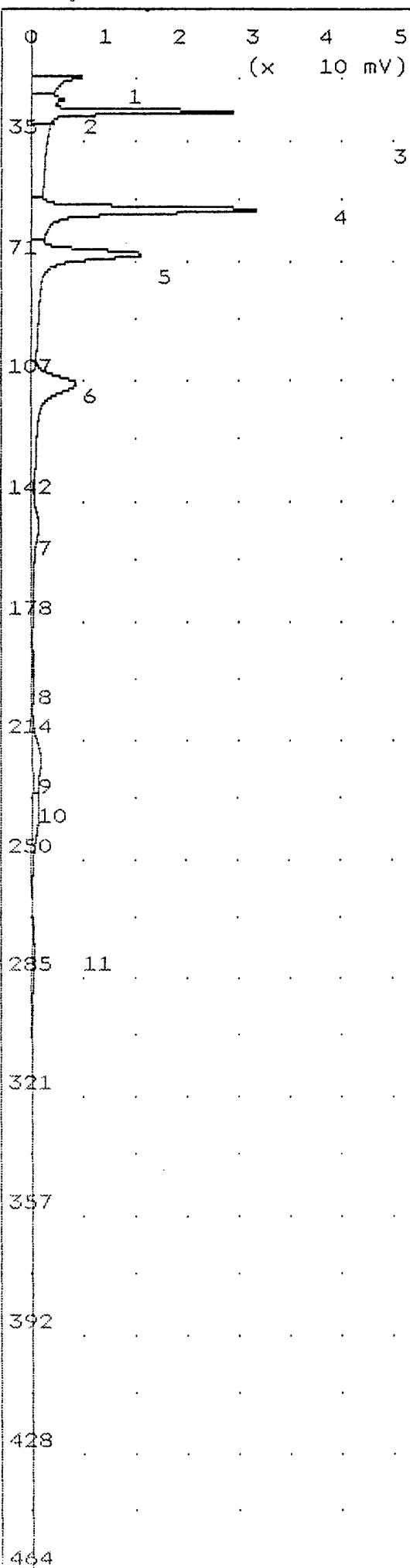
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	55.68 mVS	14.1
2	Unknown	29.40 mVS	20.7
3	dce	103.1 ppb	23.9
4	benzene	97.33 ppb	52.6
5	tce	100.3 ppb	66.6
6	toluene	99.04 ppb	105.7
7	pce	94.00 ppb	147.4
8	ethylbenzene	88.31 ppb	215.0
9	m,p-xylene	170.8 ppb	233.4
10	o-xylene	92.80 ppb	276.5

## Notes

Jefferson Barracks, Missouri  
Mark Henson

100 ppb standard

# Analysis #32 10S+ GC Function Analysis Report



Time Printed: Dec 13,94 17:57

Sample Time: Dec 13,94 17:46

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 31 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

## Peak Report

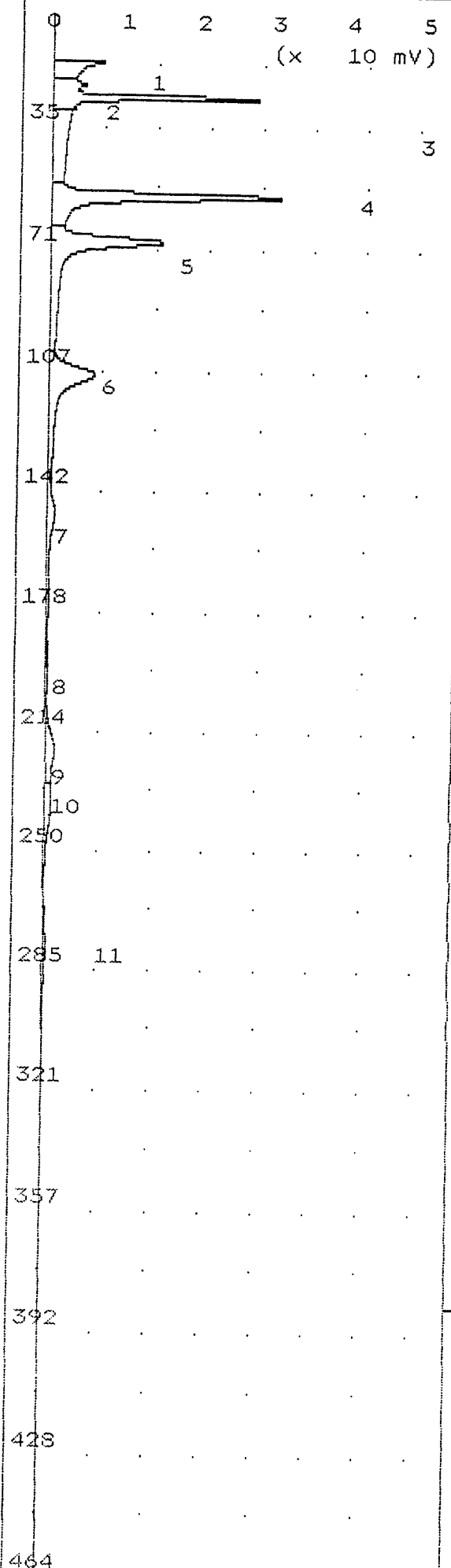
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.27 mVS	14.3
2	Unknown	12.62 mVS	21.0
3	dce	99.99 ppb	24.2
4	benzene	100.0 ppb	52.8
5	tce	100.0 ppb	66.9
6	toluene	100.0 ppb	105.8
7	pce	100.0 ppb	147.6
8	Unknown	0.534 mVS	192.6
9	ethylbenzene	99.99 ppb	217.6
10	m,p-xylene	199.9 ppb	233.6
11	o-xylene	99.99 ppb	276.8

## Notes

Jefferson Barracks, Missouri  
 Mark Henson

100 ppb std

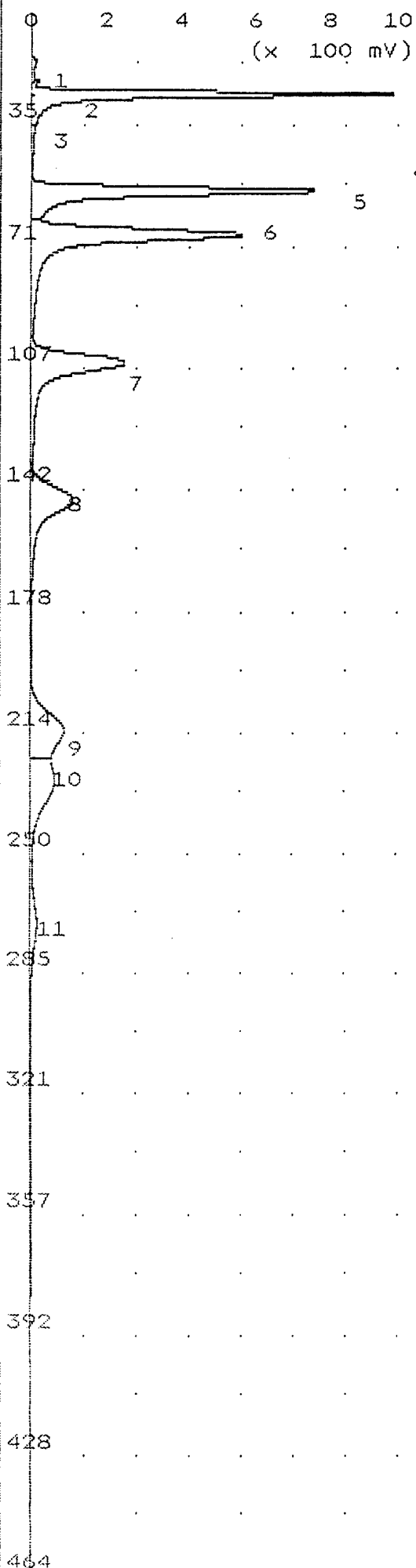
Analysis #32 10S+ GC Function Analysis Report



Time Printed: Dec 13,94 17:54  
Sample Time: Dec 13,94 17:46  
Method  
Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

Peak Report			
PK	Compound Name	Area/Conc	R.T.
1	Unknown	27.27 mVS	14.3
2	Unknown	12.62 mVS	21.0
3	dce	70.16 ppb	24.2
4	benzene	82.90 ppb	52.8
5	tce	79.54 ppb	66.9
6	toluene	86.66 ppb	105.8
7	pce	104.7 ppb	147.6
8	Unknown	0.534 mVS	192.6
9	ethylbenzene	74.17 ppb	217.6
10	m,p-xylene	129.3 ppb	233.6
11	o-xylene	71.78 ppb	276.8

Notes  
Jefferson Barracks, Missouri  
Mark Henson  
100 ppb std



Time Printed: Dec 13, 94 08:14

Sample Time: Dec 13, 94 08:00

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 29 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

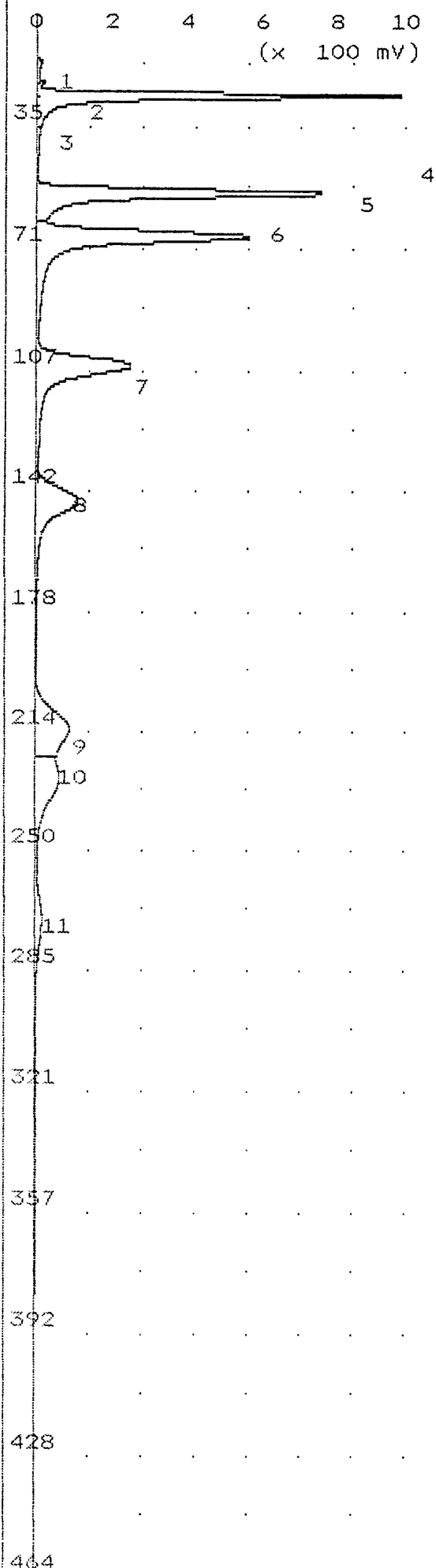
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.31 mVS	14.0
2	Unknown	39.19 mVS	15.4
3	Unknown	42.37 mVS	20.2
4	dce	1.000 ppm	24.2
5	benzene	1.000 ppm	52.7
6	tce	1.000 ppm	65.4
7	toluene	1.000 ppm	103.2
8	pce	1.000 ppm	143.4
9	ethylbenzene	1.000 ppm	211.2
10	m,p-xylene	2.000 ppm	226.0
11	o-xylene	1.005 ppm	264.8

## Notes

Jefferson Barracks, Missouri  
Mark Henson

1 ppm standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Dec 13,94 08:08

Sample Time: Dec 13,94 08:00

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 29 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

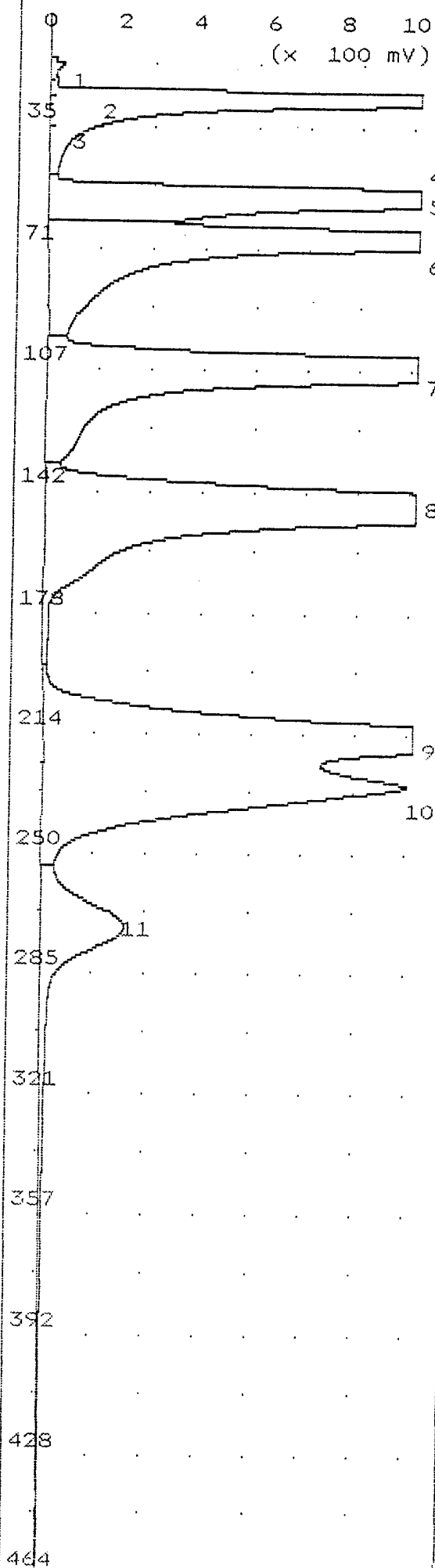
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.31 mVS	14.0
2	Unknown	39.19 mVS	15.4
3	Unknown	42.36 mVS	20.2
4	dce	1.727 ppm	24.2
5	benzene	1.804 ppm	52.7
6	tce	1.736 ppm	65.4
7	toluene	1.733 ppm	103.2
8	pce	2.067 ppm	143.4
9	ethylbenzene	2.013 ppm	211.2
10	m,p-xylene	3.538 ppm	226.0
11	o-xylene	3.136 ppm	264.8

Notes

Jefferson Barracks, Missouri  
 Mark Henson

1 ppm standard



Time Printed: Dec 13,94 08:24

Sample Time: Dec 13,94 08:15

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 30 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

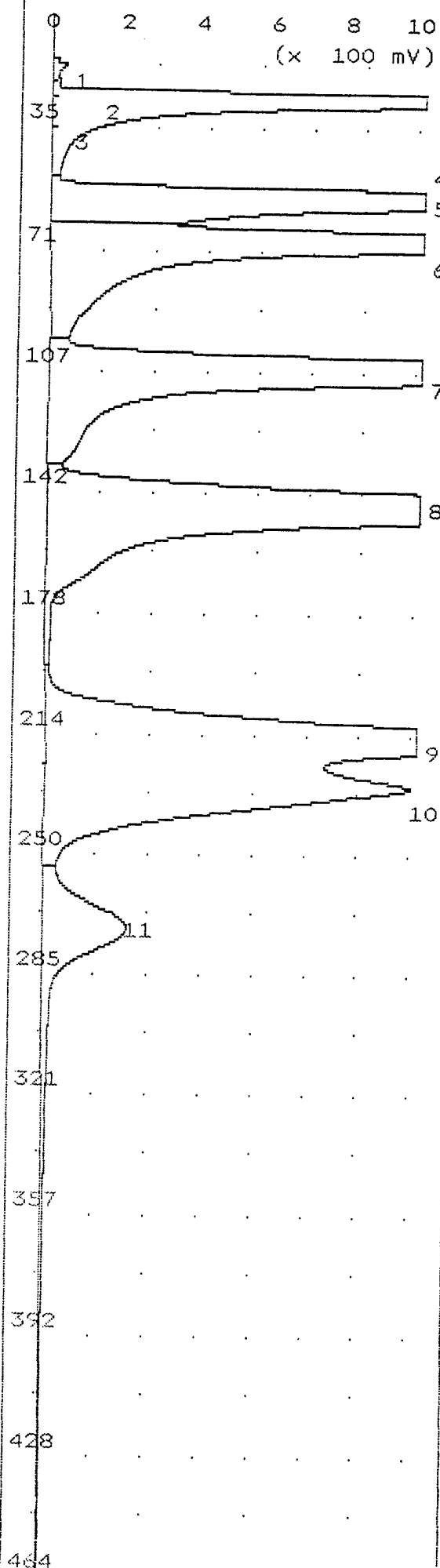
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.92 mVS	13.6
2	Unknown	115.6 mVS	14.8
3	Unknown	54.46 mVS	19.7
4	dce	7.971 ppm	25.0
5	benzene	7.166 ppm	53.8
6	tce	5.878 ppm	65.6
7	toluene	11.50 ppm	104.4
8	pce	17.01 ppm	143.7
9	ethylbenzene	14.49 ppm	213.2
10	m,p-xylene	25.18 ppm	227.4
11	o-xylene	6.539 ppm	269.6

## Notes

Jefferson Barracks, Missouri  
 Mark Henson

10 ppm standard



Time Printed: Dec 13,94 08:29

Sample Time: Dec 13,94 08:15

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 30 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

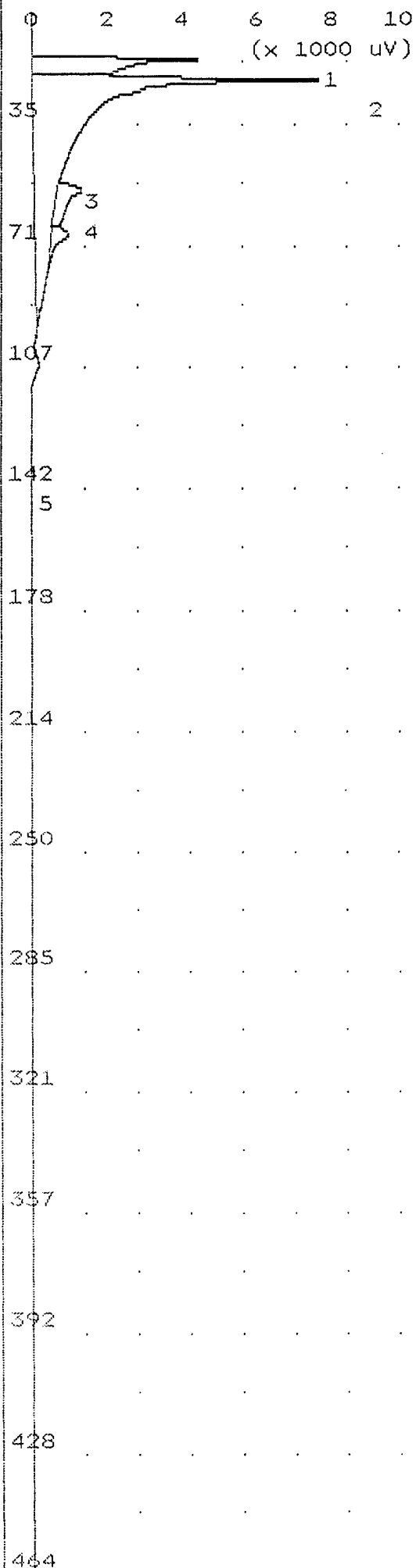
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.92 mVS	13.6
2	Unknown	115.6 mVS	14.8
3	Unknown	54.47 mVS	19.7
4	dce	10.00 ppm	25.0
5	benzene	10.00 ppm	53.8
6	tce	10.00 ppm	65.6
7	toluene	10.00 ppm	104.4
8	pce	10.00 ppm	143.7
9	ethylbenzene	10.00 ppm	213.2
10	m,p-xylene	20.00 ppm	227.4
11	o-xylene	10.03 ppm	269.6

## Notes

Jefferson Barracks, Missouri  
Mark Henson

10 ppm standard



Time Printed: Dec 13,94 08:50

Sample Time: Dec 13,94 08:42

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

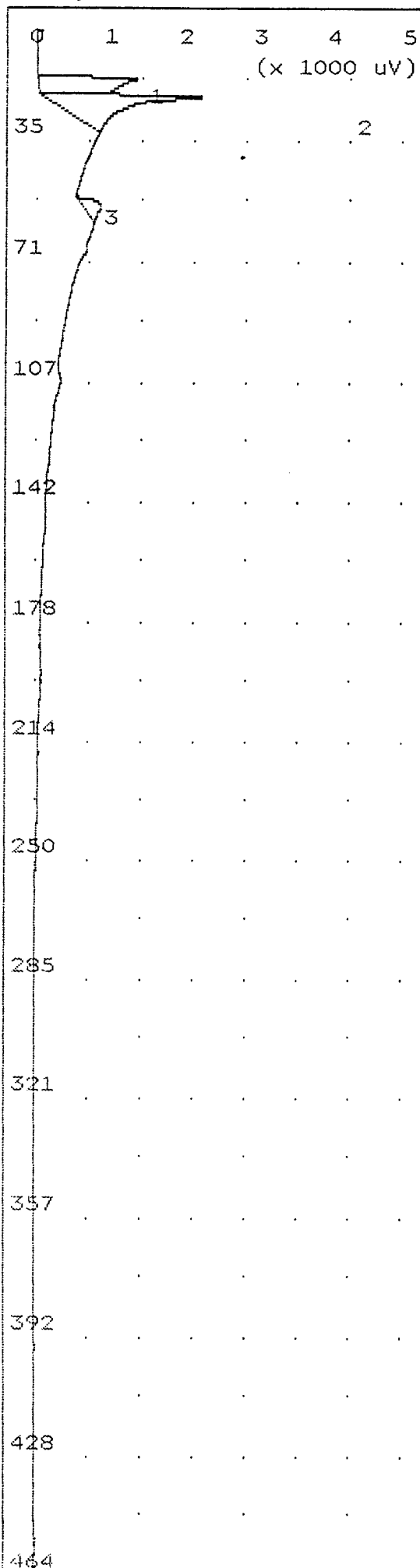
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	18.56 mVS	13.8
2	Unknown	89.01 mVS	20.2
3	benzene	3.149 ppb	52.5
4	tce	1.227 ppb	65.3
5	pce	2.385 ppb	145.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank



Time Printed: Dec 13,94 11:14

Sample Time: Dec 13,94 11:06

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	6.784 mVS	14.8
2	Unknown	8.762 mVS	20.2
3	benzene	0.847 ppb	52.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

air blanks

0 4 8 12 16 20  
(x 1000 uV)

35 2 1

71 8

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 15:18

Sample Time: Dec 13,94 15:09

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

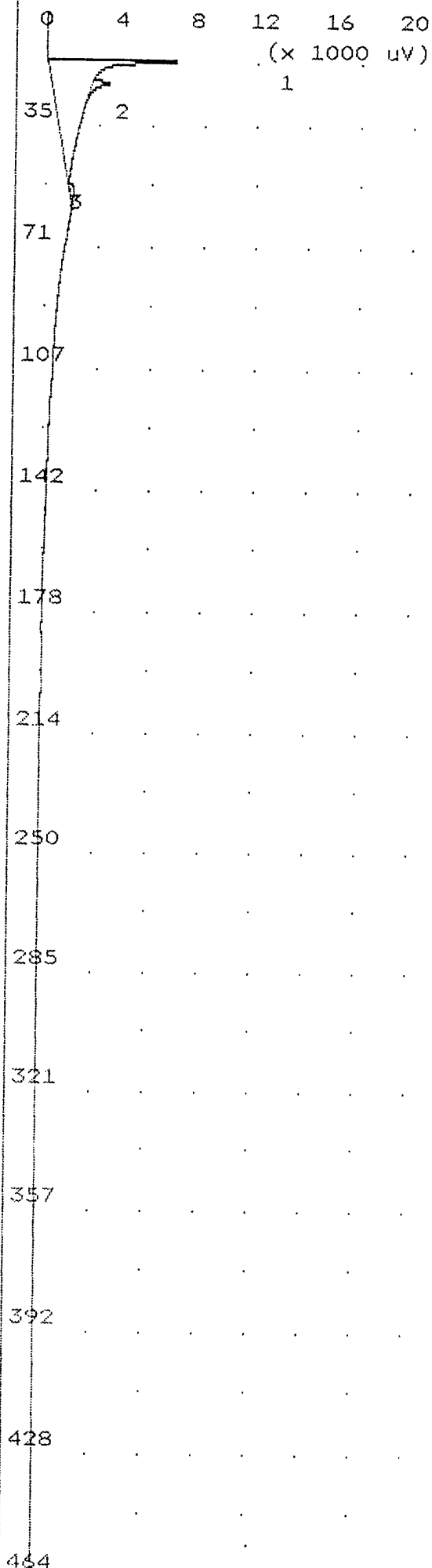
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	22.32 mVS	14.0
2	Unknown	46.93 mVS	20.6
3	benzene	1.875 ppb	52.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank



Time Printed: Dec 13,94 16:51

Sample Time: Dec 13,94 16:42

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	65.76 mVS	14.2
2	Unknown	1.883 mVS	20.9
3	benzene	1.118 ppb	51.4

## Notes

Jefferson Barracks, Missouri  
Mark Henson

~~100 ppb standard~~

AIR BLANK

0 2 4 6 8 10  
(x 1000 uV)  
1

35

2

71

3

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 13,94 18:07

Sample Time: Dec 13,94 17:59

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 31 C

Max Gain 1000

Analysis Time 500.0 sec

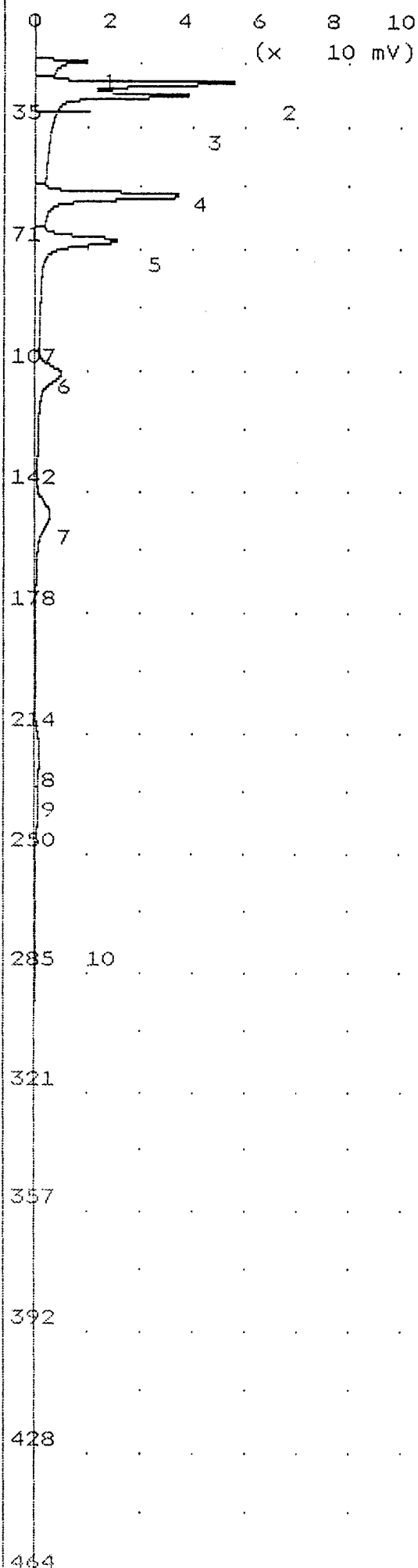
## Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	14.58 mVS	14.6
2	Unknown	14.89 mVS	21.2
3	benzene	1.254 ppb	53.2

## Notes

Jefferson Barracks, Missouri  
Mark Henson

air blank



Time Printed: Dec 14,94 13:31

Sample Time: Dec 14,94 13:23

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

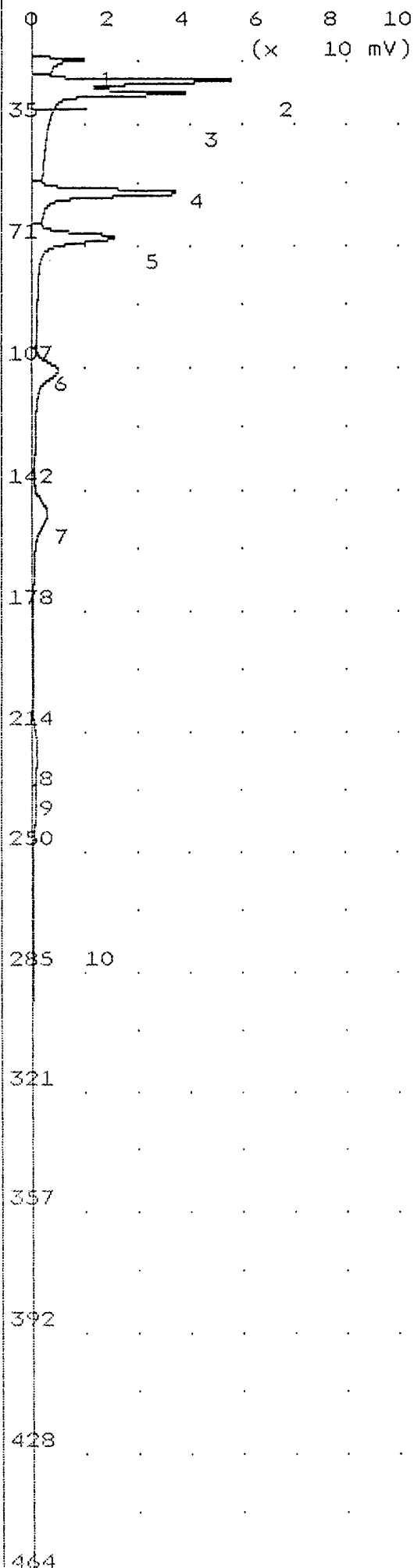
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.49 mVS	14.1
2	Unknown	116.2 mVS	20.5
3	dce	89.96 ppb	24.3
4	benzene	73.99 ppb	52.4
5	tce	70.87 ppb	65.8
6	toluene	73.36 ppb	105.6
7	pce	62.57 ppb	147.6
8	ethylbenzene	52.20 ppb	217.6
9	m,p-xylene	97.30 ppb	233.2
10	o-xylene	48.08 ppb	275.7

## Notes

Jeffersn Barracks  
Mark Henson

100 ppb std



Time Printed: Dec 14,94 13:34

Sample Time: Dec 14,94 13:23

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 31 C  
Max Gain 1000  
Analysis Time 500.0 sec

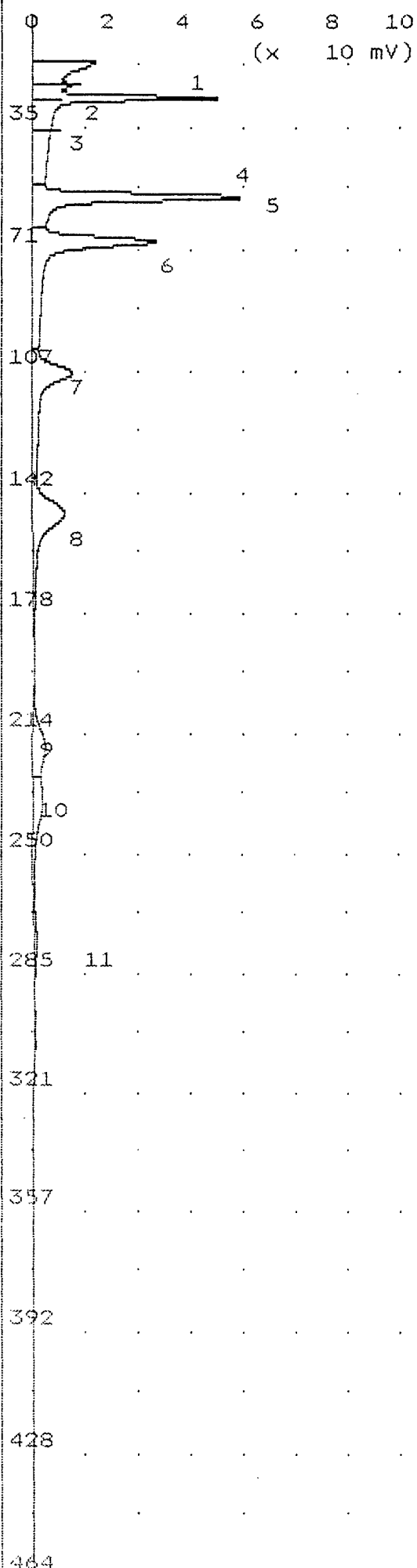
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.49 mVS	14.1
2	Unknown	116.2 mVS	20.5
3	dce	100.0 ppb	24.3
4	benzene	99.99 ppb	52.4
5	tce	99.99 ppb	65.8
6	toluene	100.0 ppb	105.6
7	pce	99.99 ppb	147.6
8	ethylbenzene	100.0 ppb	217.6
9	m,p-xylene	199.9 ppb	233.2
10	o-xylene	100.0 ppb	275.7

## Notes

Jefferson Barracks  
Mark Henson

100 ppb std



Time Printed: Dec 14,94 11:40

Sample Time: Dec 14,94 11:31

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

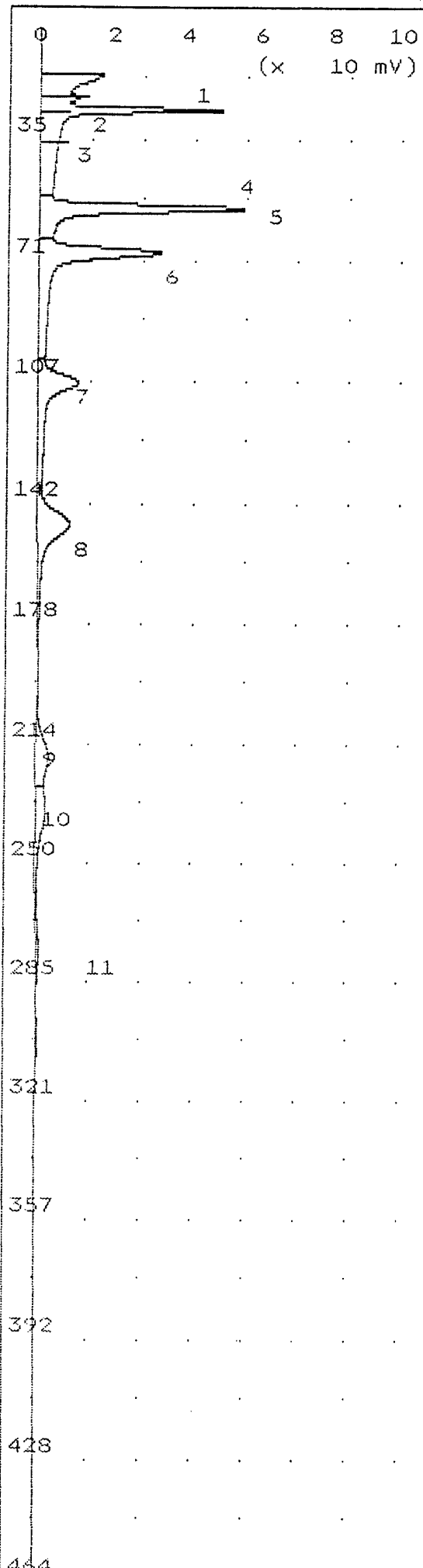
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	22.88 mVS	14.5
2	Unknown	50.14 mVS	16.0
3	Unknown	30.66 mVS	21.0
4	dce	154.0 ppb	24.7
5	benzene	142.1 ppb	53.6
6	tce	138.1 ppb	66.6
7	toluene	134.6 ppb	105.2
8	pce	119.4 ppb	146.6
9	ethylbenzene	132.7 ppb	216.0
10	m,p-xylene	244.0 ppb	231.6
11	o-xylene	24.16 ppb	273.8

## Notes

Jeffersn Barracks  
Mark Henson

100 ppb std

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 11:47

Sample Time: Dec 14,94 11:31

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

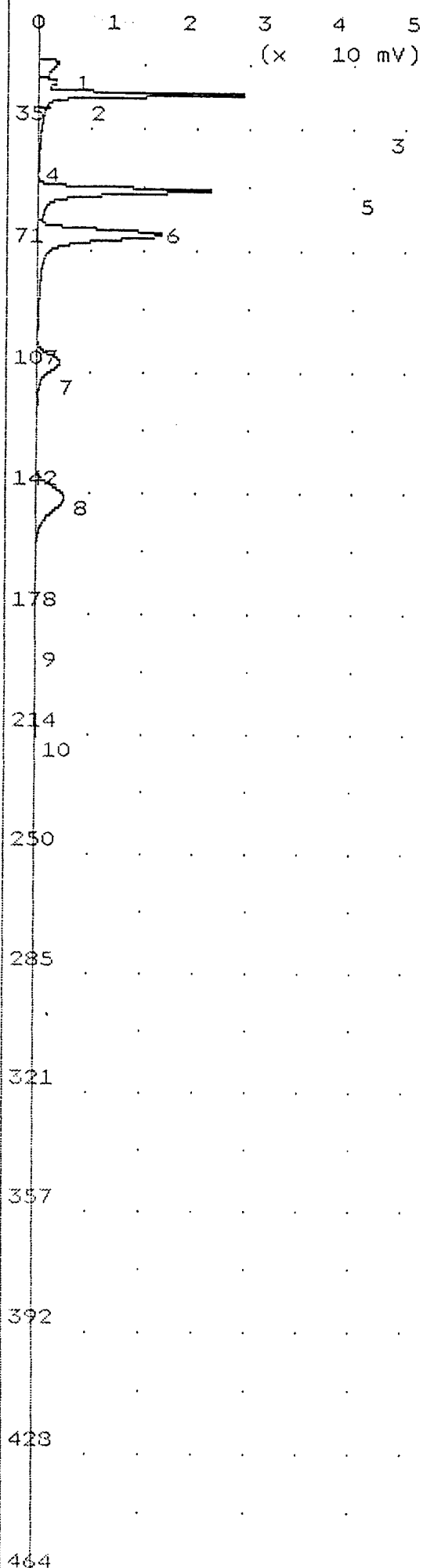
Peak Report

PK	Compound Name	Area/Conc	R.T.
1	Unknown	22.88 mVS	14.5
2	Unknown	50.14 mVS	16.0
3	Unknown	30.66 mVS	21.0
4	dce	100.0 ppb	24.7
5	benzene	99.99 ppb	53.6
6	tce	100.0 ppb	66.6
7	toluene	100.0 ppb	105.2
8	pce	100.0 ppb	146.6
9	ethylbenzene	100.0 ppb	216.0
10	m,p-xylene	200.0 ppb	231.6
11	o-xylene	99.99 ppb	273.8

Notes

Jeffersn Barracks  
 Mark Henson

100 ppb std



Time Printed: Dec 14,94 08:06

Sample Time: Dec 14,94 07:57

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	28	C
Max Gain	1000	
Analysis Time	500.0	sec

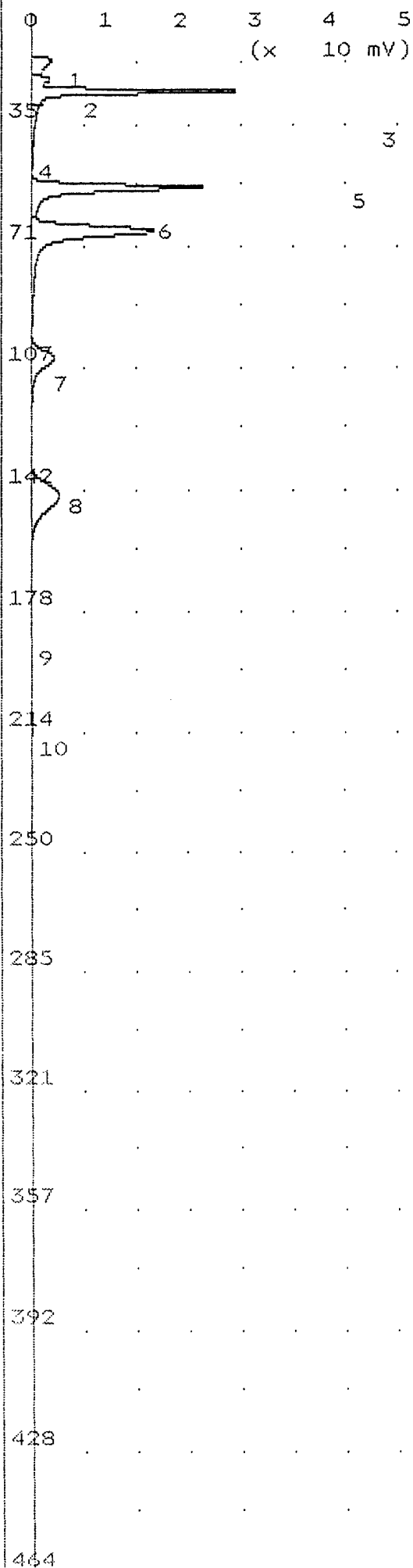
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.88 mVS	13.6
2	Unknown	8.281 mVS	19.5
3	Unknown	71.52 mVS	23.1
4	Unknown	0.050 mVS	37.1
5	Unknown	68.88 mVS	51.3
6	Unknown	97.82 mVS	64.4
7	Unknown	42.07 mVS	101.7
8	Unknown	58.45 mVS	142.2
9	Unknown	9.903 mVS	187.4
10	Unknown	21.97 mVS	209.4

## Notes

Jefferson Barracks  
Mark Henson

100 ppb std



Time Printed: Dec 14,94 08:10

Sample Time: Dec 14,94 07:57

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 28 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

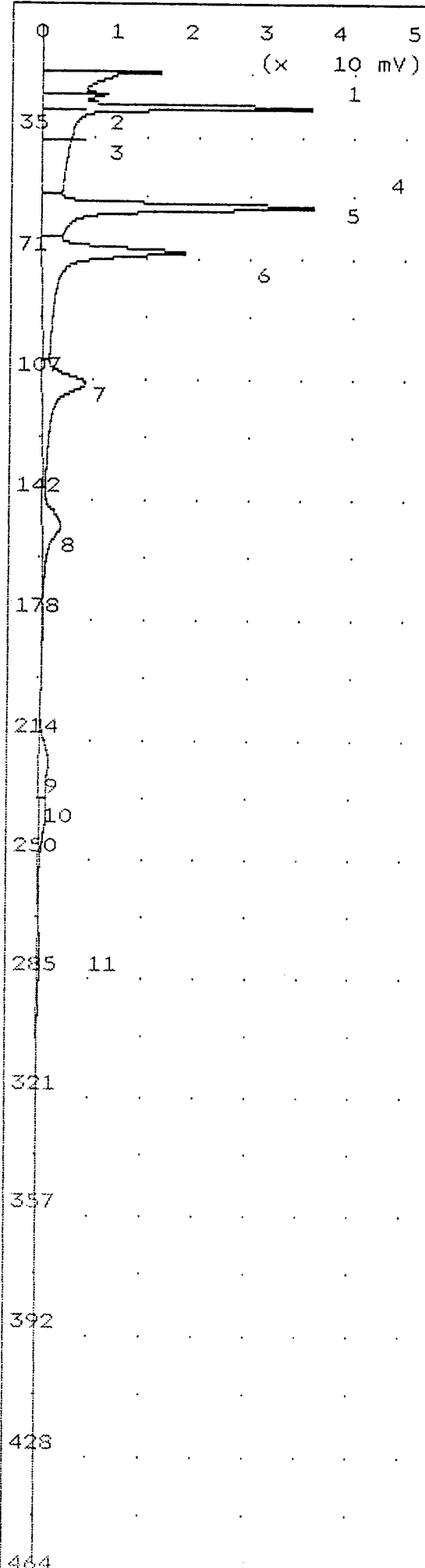
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.88 mVS	13.6
2	Unknown	8.281 mVS	19.5
3	dce	100.0 ppb	23.1
4	Unknown	0.050 mVS	37.1
5	benzene	100.0 ppb	51.3
6	tce	100.0 ppb	64.4
7	toluene	100.0 ppb	101.7
8	pce	100.0 ppb	142.2
9	ethylbenzene	100.0 ppb	187.4
10	m,p-xylene	200.0 ppb	209.4

## Notes

Jeffersn Barracks  
Mark Henson

100 ppb std

Analysis #33 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 17:00

Sample Time: Dec 14,94 16:48

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.66 mVS	14.4
2	Unknown	33.84 mVS	15.8
3	Unknown	24.10 mVS	20.9
4	dce	100.0 ppb	24.0
5	benzene	100.0 ppb	52.8
6	tce	99.99 ppb	66.9
7	toluene	100.0 ppb	106.0
8	pce	100.0 ppb	148.0
9	ethylbenzene	100.0 ppb	218.2
10	m,p-xylene	200.0 ppb	232.2
11	o-xylene	100.0 ppb	277.0

Notes

Jeffersn Barracks  
 Mark Henson

100 ppb std

0 1 2 3 4 5  
(x 10 mV)  
1

35 2  
3

71 4  
5

107 6

142 7

178 8

214 9

250 10

285 11

321

357

392

428

464

Time Printed: Dec 14,94 16:57

Sample Time: Dec 14,94 16:48

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

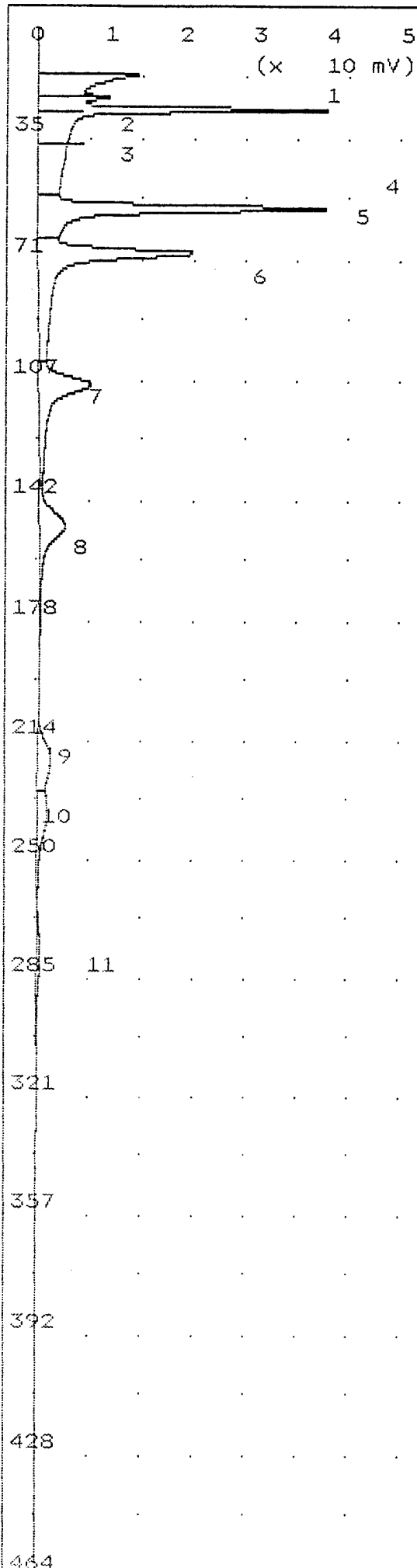
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.66 mVS	14.4
2	Unknown	33.84 mVS	15.8
3	Unknown	24.10 mVS	20.9
4	dce	84.87 ppb	24.0
5	benzene	92.88 ppb	52.8
6	tce	86.14 ppb	66.9
7	toluene	80.35 ppb	106.0
8	pce	45.89 ppb	148.0
9	ethylbenzene	68.35 ppb	218.2
10	m,p-xylene	125.0 ppb	232.2
11	o-xylene	54.52 ppb	277.0

## Notes

Jeffersn Barracks  
Mark Henson

100 ppb std



Time Printed: Dec 14,94 15:36

Sample Time: Dec 14,94 15:28

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

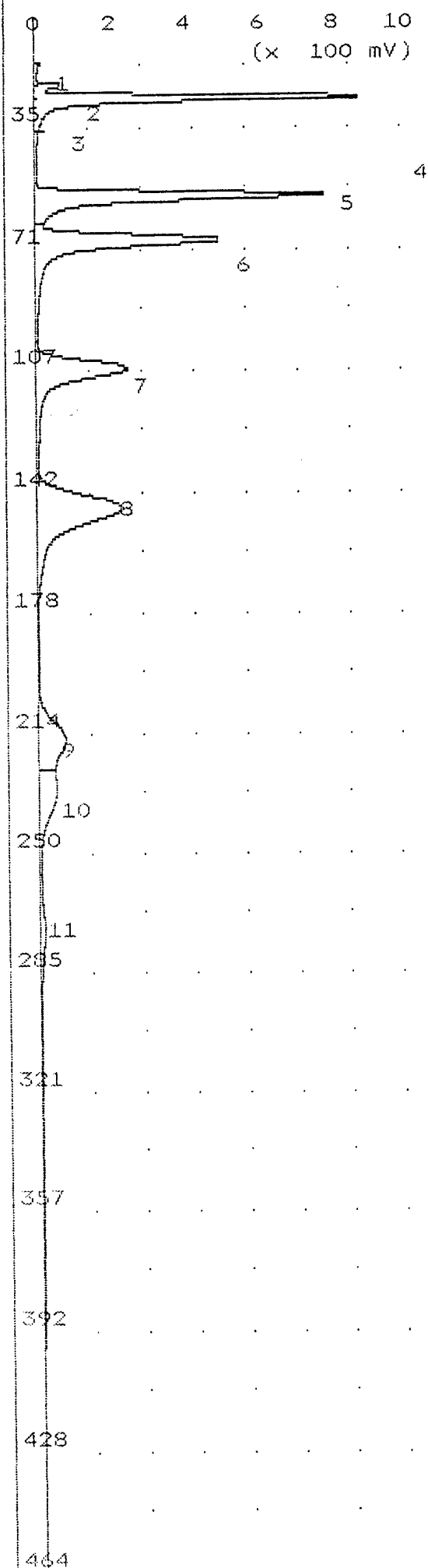
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.32 mVS	14.6
2	Unknown	35.89 mVS	15.8
3	Unknown	26.15 mVS	21.0
4	dce	86.84 ppb	24.1
5	benzene	95.02 ppb	53.8
6	tce	90.97 ppb	66.4
7	toluene	84.54 ppb	105.7
8	pce	56.18 ppb	147.6
9	ethylbenzene	92.19 ppb	214.4
10	m,p-xylene	186.5 ppb	233.4
11	o-xylene	87.23 ppb	276.5

## Notes

Jefferson Barracks  
 Mark Henson

100 ppb std



Time Printed: Dec 14,94 08:55

Sample Time: Dec 14,94 08:43

## Method

Slope Up 0.500 mV/Sec  
Slope Down 1.500 mV/Sec  
Min Area 0.000 mVSec  
Min Height 0.000 mV  
Analysis Delay 0.0 sec  
Window Percent 10.0 %  
Det Flow 12 ml/min  
B/F Flow 12 ml/min  
Aux Flow 0 ml/min  
Oven Temp 40 C  
Amb Temp 30 C  
Max Gain 1000  
Analysis Time 500.0 sec

## Peak Report

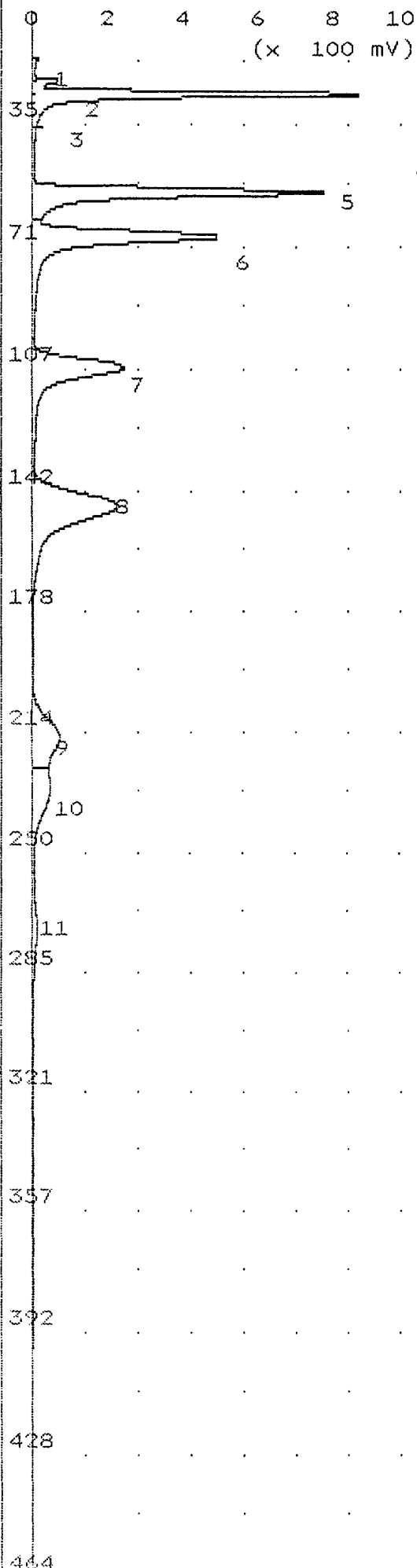
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.05 mVS	14.2
2	Unknown	40.20 mVS	15.8
3	Unknown	153.3 mVS	20.6
4	dce	1.000 ppm	24.5
5	benzene	1.000 ppm	53.2
6	tce	1.000 ppm	66.1
7	toluene	1.000 ppm	104.4
8	pce	1.000 ppm	145.0
9	ethylbenzene	1.000 ppm	213.4
10	m,p-xylene	2.001 ppm	228.4
11	o-xylene	1.008 ppm	270.6

## Notes

Jeffersn Barracks  
Mark Henson

~~100 ppb std~~  
1 ppm std

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 08:52

Sample Time: Dec 14,94 08:43

Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 30 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

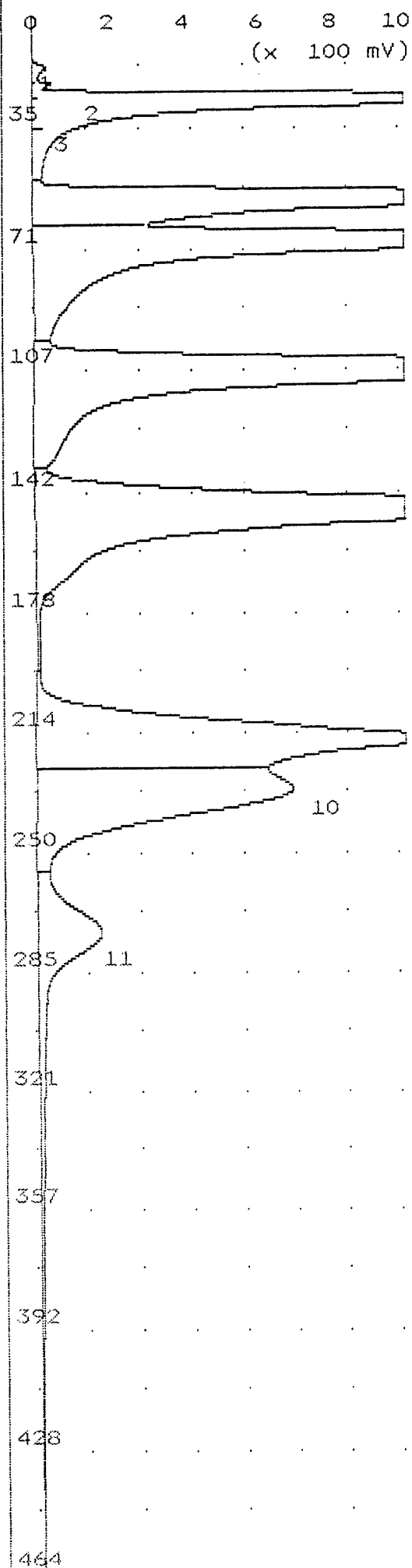
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.05 mVS	14.2
2	Unknown	40.20 mVS	15.8
3	Unknown	153.3 mVS	20.6
4	dce	3.355 ppm	24.5
5	benzene	3.736 ppm	53.2
6	tce	2.640 ppm	66.1
7	toluene	4.480 ppm	104.4
8	pce	4.682 ppm	145.0
9	m,p-xylene	9.470 ppm	213.4
10	Unknown	783.5 mVS	228.4
11	Unknown	706.9 mVS	270.6

Notes

Jefferson Barracks  
 Mark Henson

100 ppm std



Time Printed: Dec 14,94 09:08

Sample Time: Dec 14,94 09:00

## Method

Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 B/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 31 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

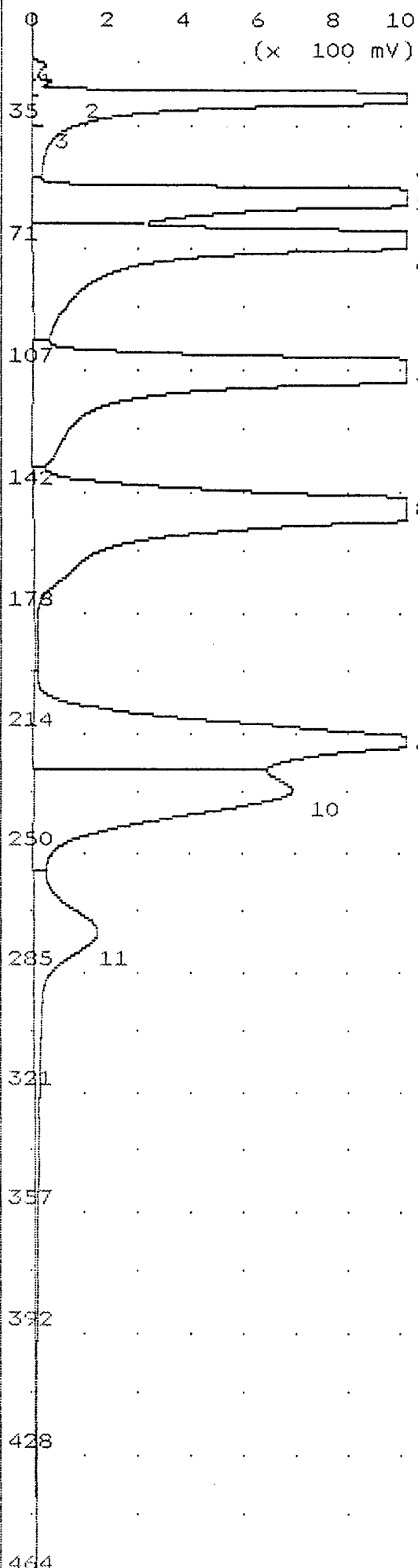
## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.02 mVS	14.1
2	Unknown	117.5 mVS	15.2
3	Unknown	110.1 mVS	20.4
4	dce	6.537 ppm	25.2
5	benzene	7.068 ppm	54.2
6	tce	5.932 ppm	66.4
7	toluene	10.60 ppm	104.9
8	pce	6.655 ppm	144.8
9	ethylbenzene	12.42 ppm	214.2
10	m,p-xylene	25.52 ppm	228.6
11	o-xylene	6.733 ppm	271.2

## Notes

Jeffersn Barracks  
 Mark Henson

100 ppm std



Time Printed: Dec 14,94 09:14

Sample Time: Dec 14,94 09:00

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.02 mVS	14.1
2	Unknown	117.5 mVS	15.2
3	Unknown	110.1 mVS	20.4
4	dce	10.00 ppm	25.2
5	benzene	7.069 ppm	54.2
6	tce	10.00 ppm	66.4
7	toluene	10.00 ppm	104.9
8	pce	10.00 ppm	144.8
9	ethylbenzene	10.00 ppm	214.2
10	m,p-xylene	20.00 ppm	228.6
11	o-xylene	10.03 ppm	271.2

## Notes

Jeffersn Barracks  
Mark Henson

10 ppm std

0 1 2 3 4 5  
(x 1000 uV)

35 2

71 3

107

142

4

178

214

250

285

321

357

392

428

444

Time Printed: Dec 14,94 10:35

Sample Time: Dec 14,94 10:26

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

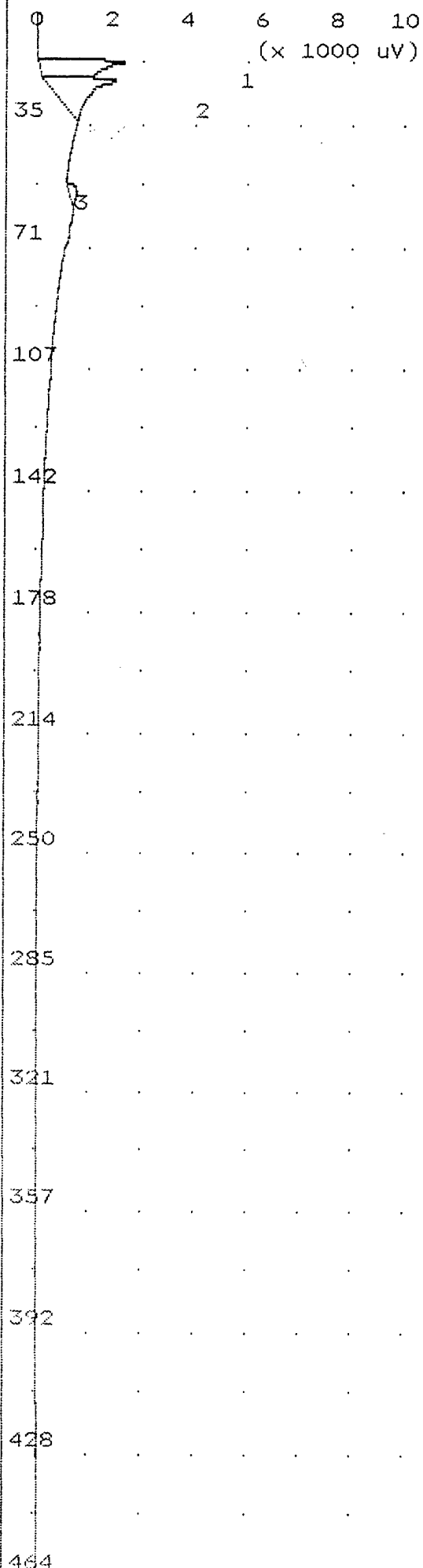
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.412 mVS	16.5
2	Unknown	7.108 mVS	20.6
3	benzene	2.110 ppb	53.3
4	pce	2.112 ppb	146.6

Notes

Jeffersn Barracks  
Mark Henson

air blank



Time Printed: Dec 14,94 12:09

Sample Time: Dec 14,94 12:00

## Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

## Peak Report

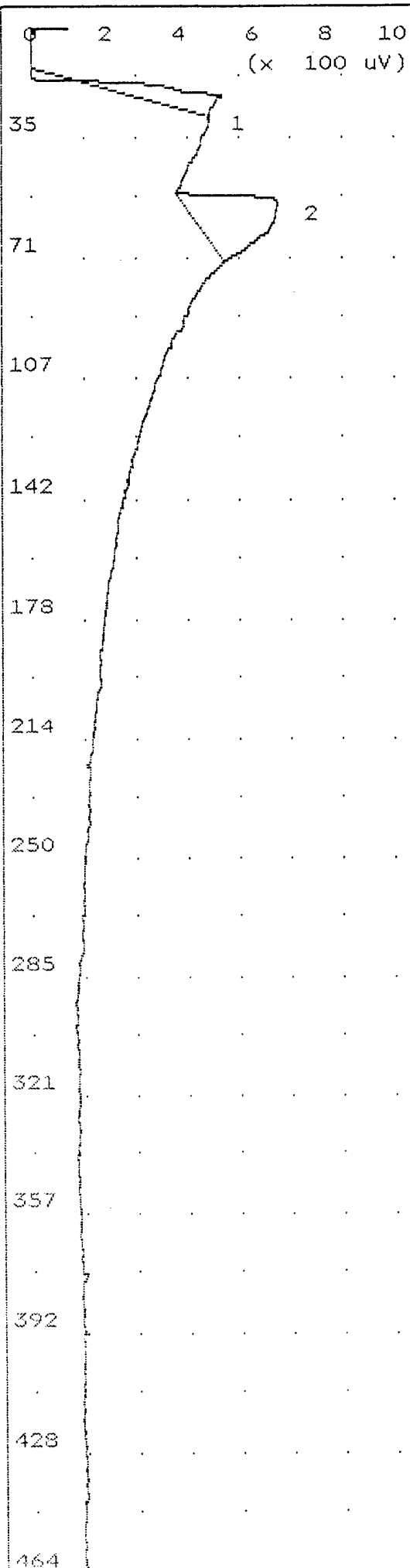
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	11.04 mVS	14.5
2	Unknown	9.958 mVS	20.3
3	benzene	0.616 ppb	53.3

## Notes

Jeffersn Barracks

Mark Henson

air blank



Time Printed: Dec 14,94 13:45

Sample Time: Dec 14,94 13:36

## Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

## Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	2.516 mVS	21.0
2	benzene	2.461 ppb	53.3

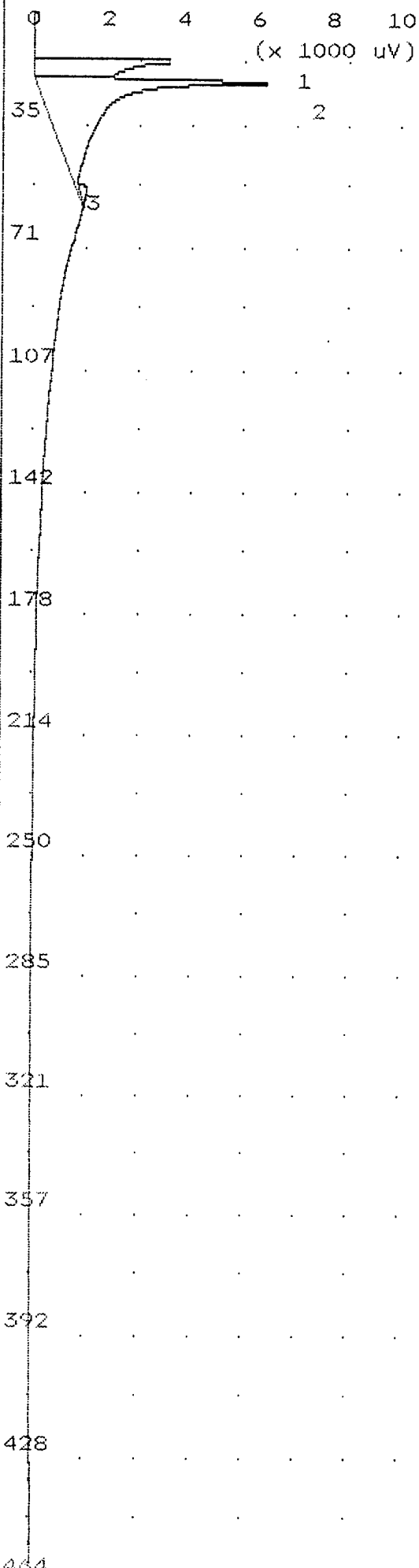
## Notes

Jefferson Barracks  
Mark Henson

~~100 ppb std~~

AIR SAMPLE

Analysis #27 10S+ GC Function Analysis Report



Time Printed: Dec 14,94 15:48  
 Sample Time: Dec 14,94 15:39  
 Method  
 Slope Up 0.500 mV/Sec  
 Slope Down 1.500 mV/Sec  
 Min Area 0.000 mVSec  
 Min Height 0.000 mV  
 Analysis Delay 0.0 sec  
 Window Percent 10.0 %  
 Det Flow 12 ml/min  
 S/F Flow 12 ml/min  
 Aux Flow 0 ml/min  
 Oven Temp 40 C  
 Amb Temp 32 C  
 Max Gain 1000  
 Analysis Time 500.0 sec

Peak Report		
PK	Compound Name	Area/Conc R.T.
1	Unknown	16.90 mVS 14.3
2	Unknown	47.01 mVS 20.8
3	benzene	0.695 ppb 53.3

Notes  
 Jeffersn Barracks  
 Mark Henson  
~~100 ppb std~~  
 AIR BLANK

0 4 8 12 16 20  
(x 100 uV)

35 2

71 3

107

142

178

214

250

285

321

357

392

428

464

Time Printed: Dec 14,94 17:10

Sample Time: Dec 14,94 17:01

Method

Slope Up 0.500 mV/Sec

Slope Down 1.500 mV/Sec

Min Area 0.000 mVSec

Min Height 0.000 mV

Analysis Delay 0.0 sec

Window Percent 10.0 %

Det Flow 12 ml/min

B/F Flow 12 ml/min

Aux Flow 0 ml/min

Oven Temp 40 C

Amb Temp 32 C

Max Gain 1000

Analysis Time 500.0 sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.964 mVS	16.2
2	Unknown	3.673 mVS	20.6
3	benzene	0.797 ppb	53.5

Notes

Jefferson Barracks

Mark Henson

air blank

**APPENDIX E**

**FIELD NOTES/LAND SURVEY PLATS**

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# MEASUREMENT CONVERSION CARD

IF YOU KNOW: UNIT TO FIND

LENGTH	UNIT	UNIT TO FIND
inches	1	feet
feet	12	yards
yards	3	miles
miles	1760	meters
meters	1.0936	centimeters
centimeters	2.54	inches

WEIGHT	UNIT	UNIT TO FIND
ounces	16	pounds
pounds	2.2046	kilograms
kilograms	2.2046	pounds

VOLUME	UNIT	UNIT TO FIND
fluid ounces	9.4635	liters
liters	1.0567	quarts
quarts	0.94635	liters
gallons	3.7854	liters
liters	0.26417	gallons

TEMPERATURE	UNIT	UNIT TO FIND
$^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$		
$^{\circ}\text{F} = \frac{9}{5}(\text{C} + 32)$		

TEMPERATURE	UNIT	UNIT TO FIND
$^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$		
$^{\circ}\text{F} = \frac{9}{5}(\text{C} + 32)$		
$^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$		
$^{\circ}\text{F} = \frac{9}{5}(\text{C} + 32)$		
$^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$		
$^{\circ}\text{F} = \frac{9}{5}(\text{C} + 32)$		
$^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$		
$^{\circ}\text{F} = \frac{9}{5}(\text{C} + 32)$		
$^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$		
$^{\circ}\text{F} = \frac{9}{5}(\text{C} + 32)$		

FEO-EX 367-8278

3025 South Hauly  
8 PM

SUS-68  
215

209  
235  
259

ALL-WEATHER WHEEL

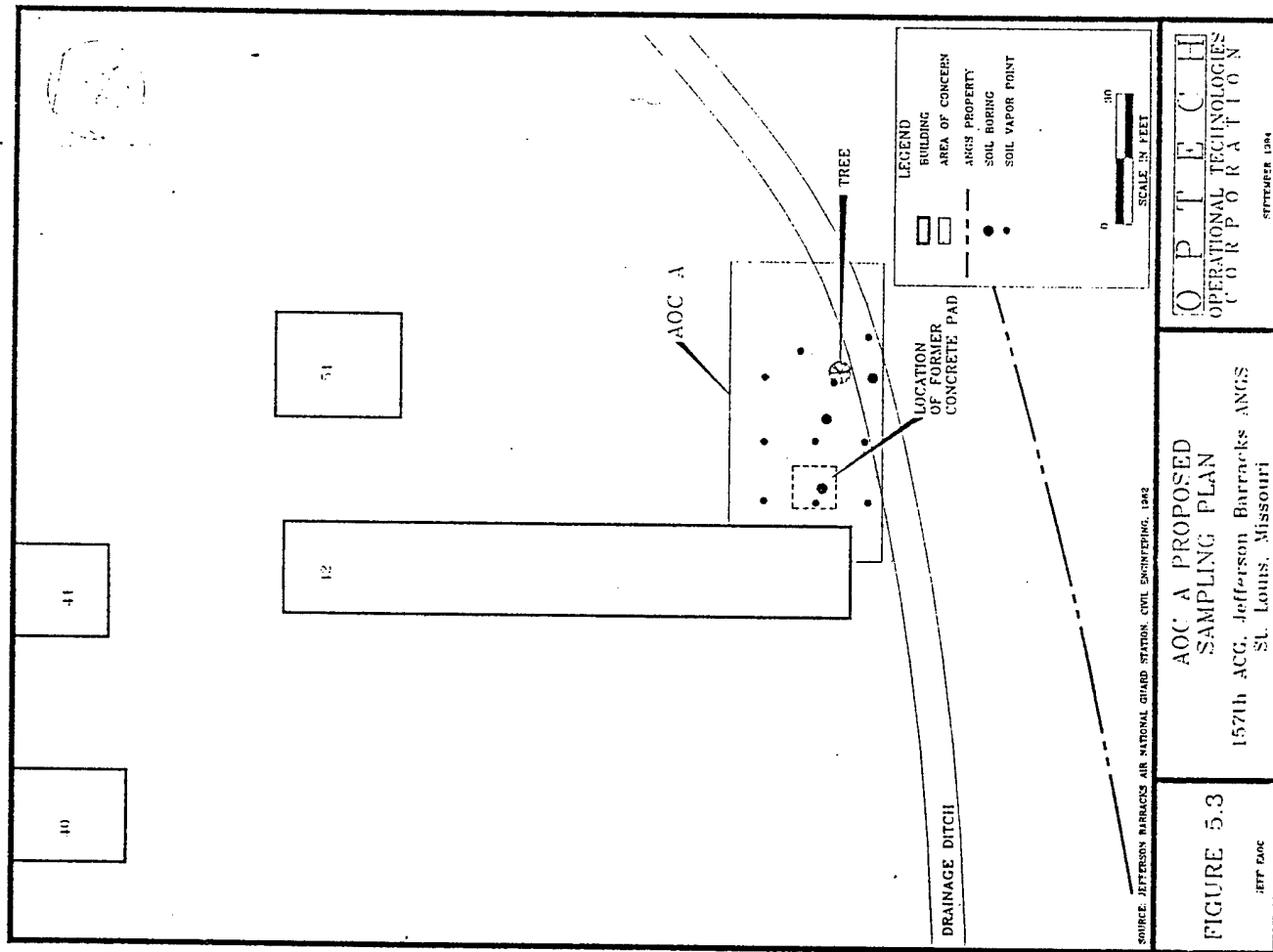
EARL E PARKER II

4100 NW Loop 410 SUITE 230  
SAN ANTONIO TX 78229  
(210) 731-0000 EXT 170

JEFFERSON BARRACKS ANG'S  
ST. LOUIS, Missouri

Rate in the Pump...  
In third...  
posed to...

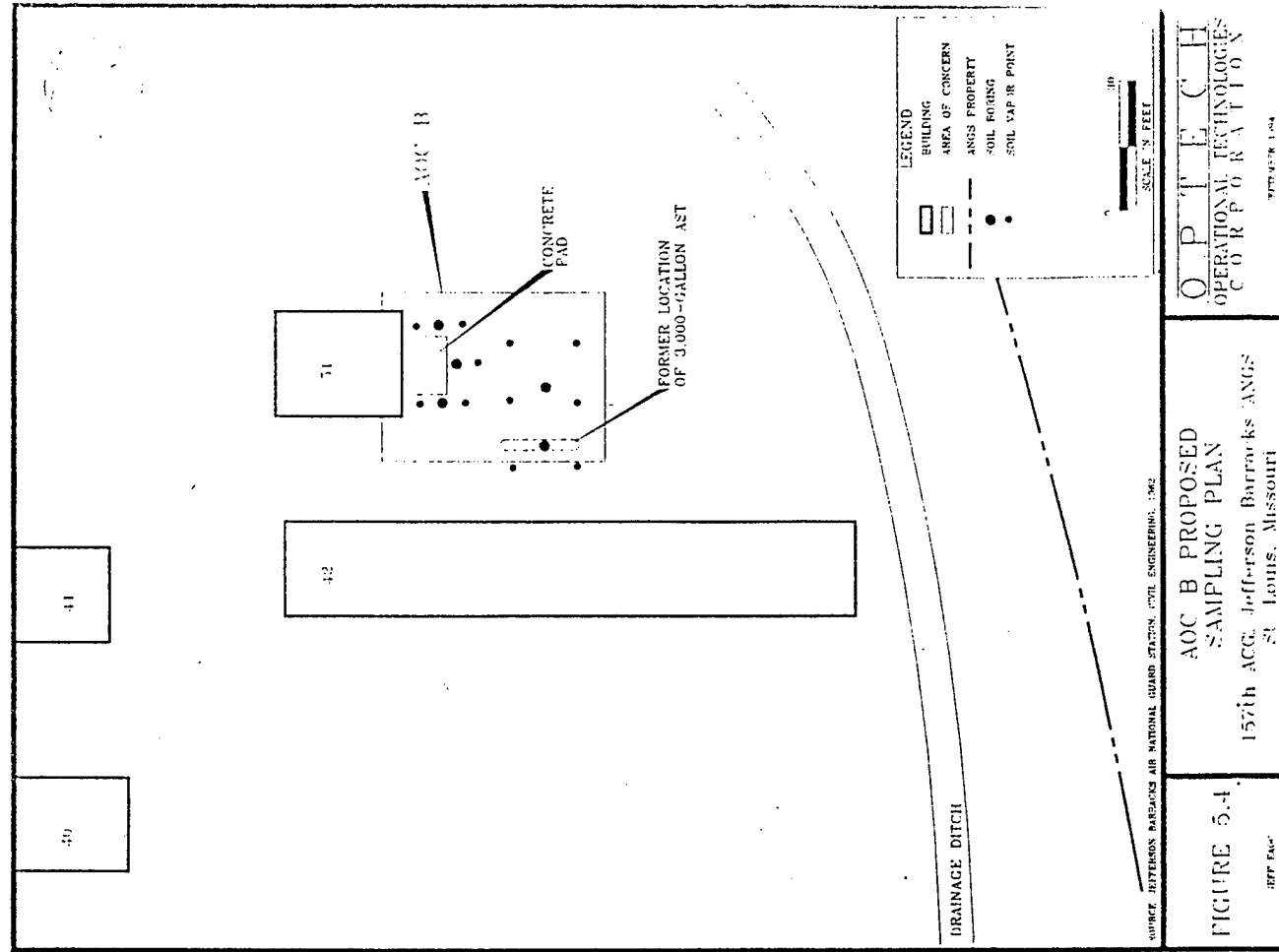
③ AOC-A (Proposed)



5-7

AOC-B (Proposed)

④



AOC - C (Proposed)

AOC - D (Proposed)

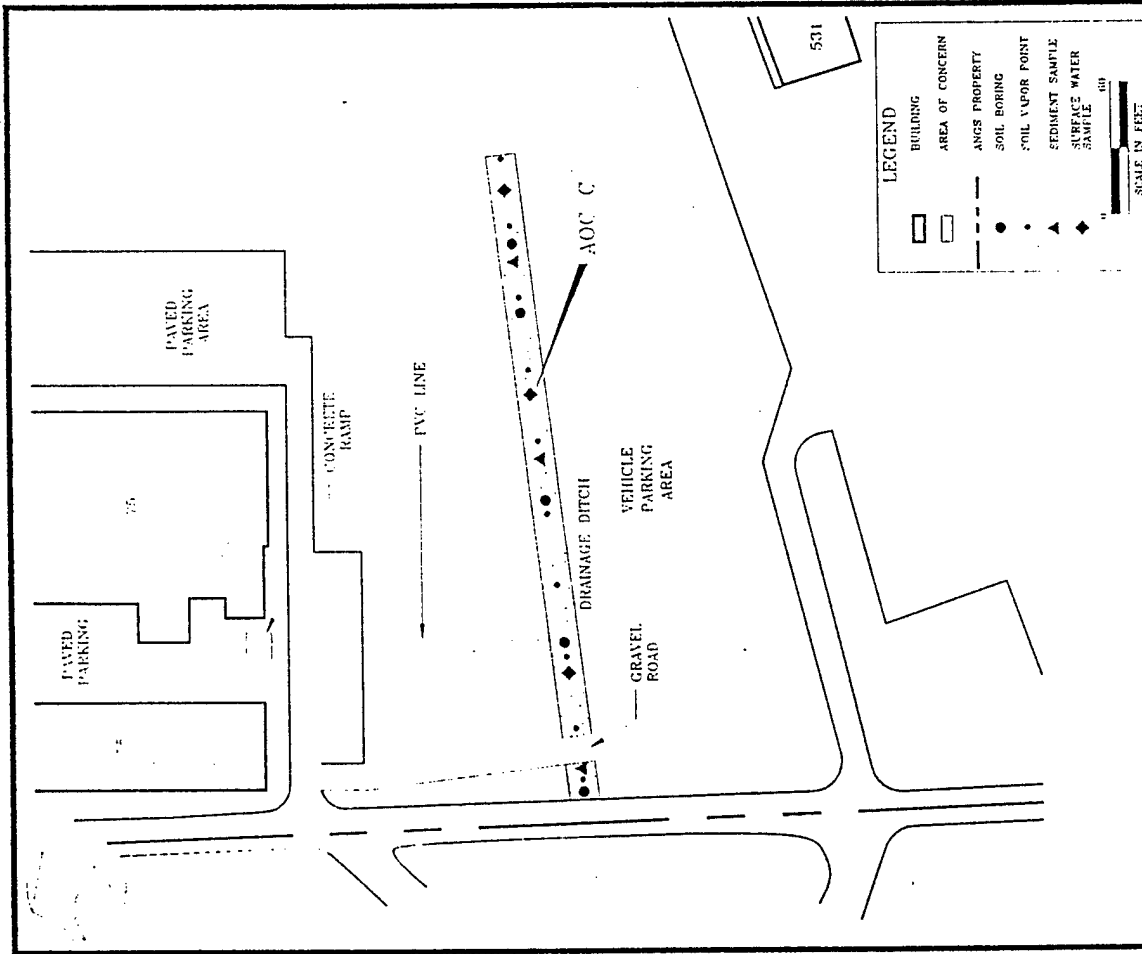


FIGURE 5.5  
AOC C PROPOSED  
SAMPLING PLAN  
157th ACG, Jefferson Barracks ANG,  
St. Louis, Missouri

OPERATIONAL TECHNOLOGIES  
CORPORATION  
SEPTEMBER 1994

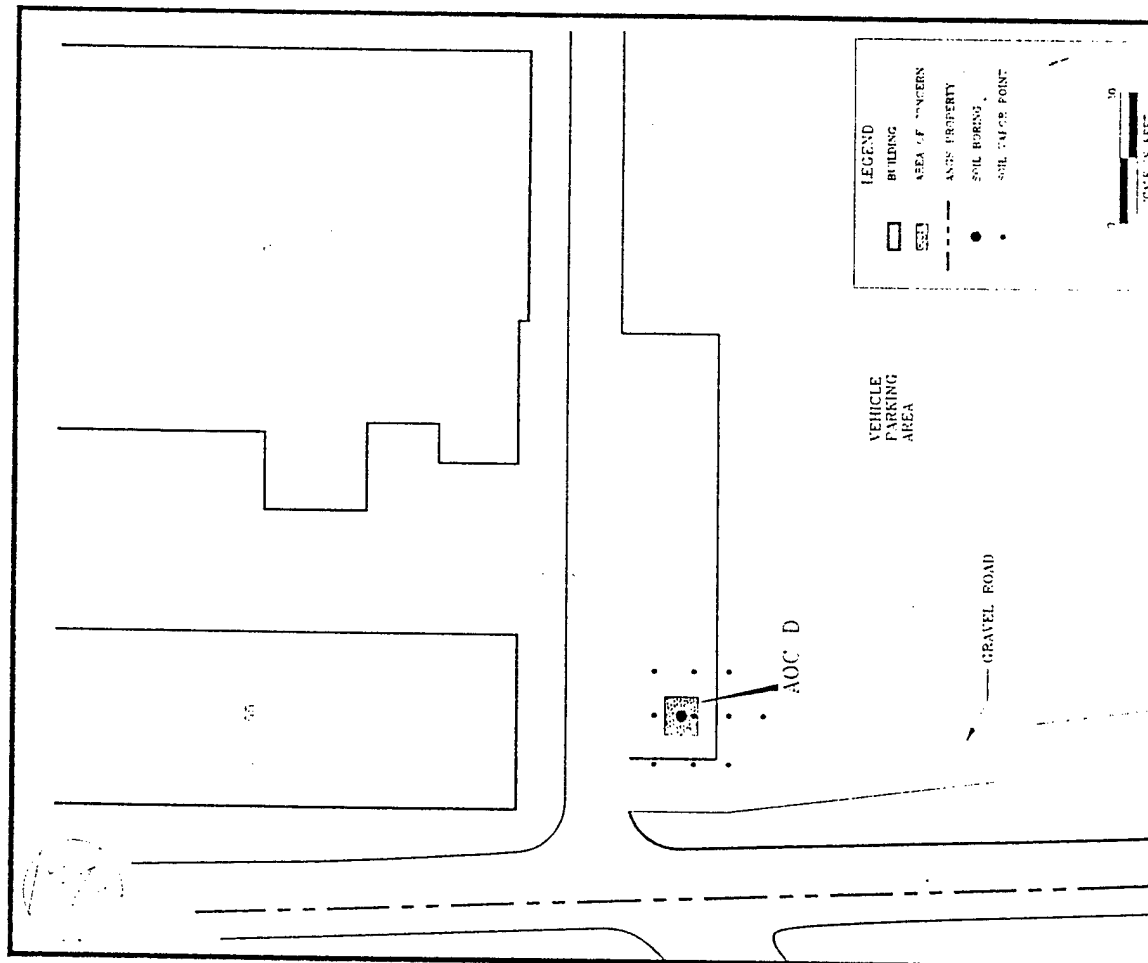
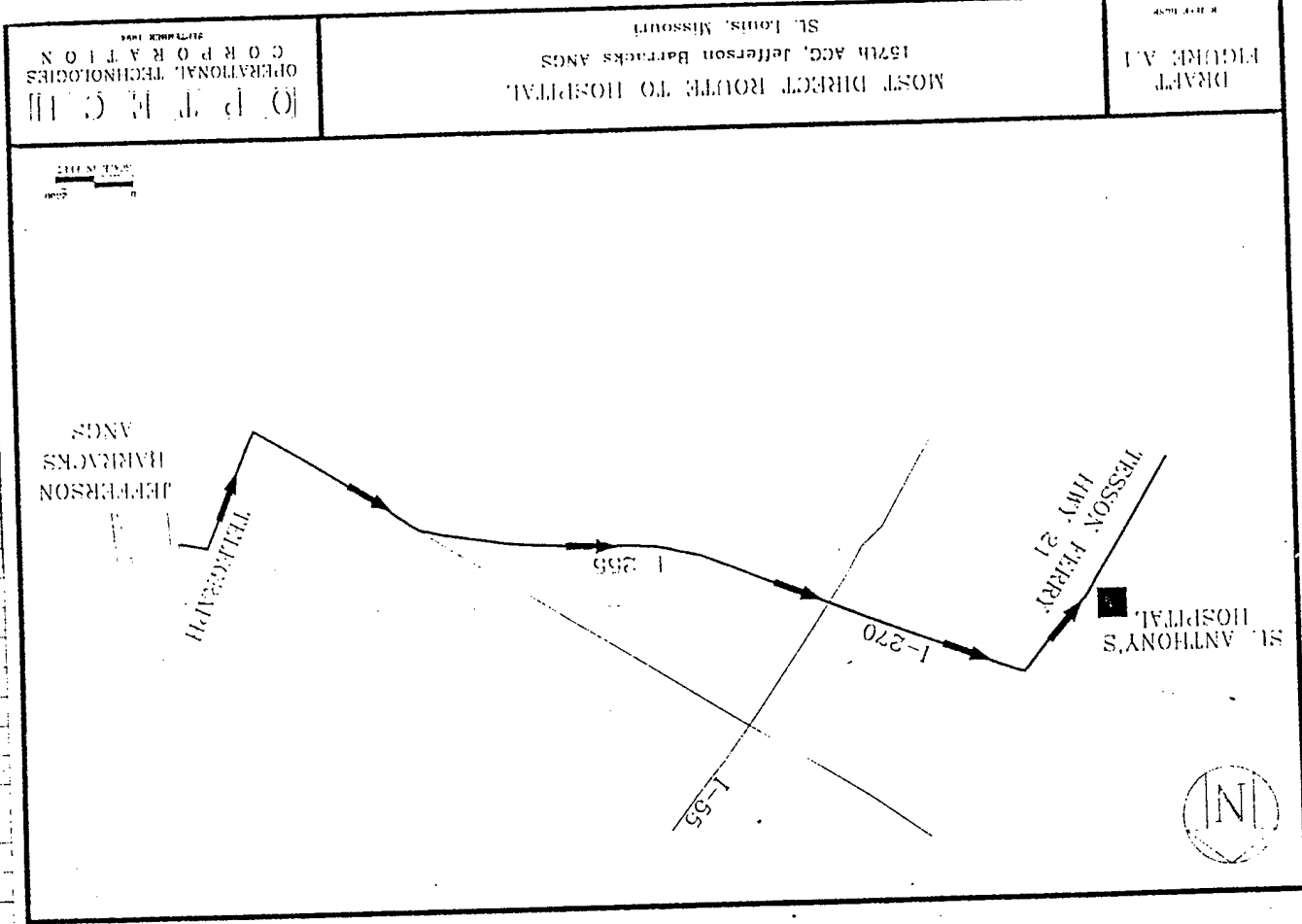


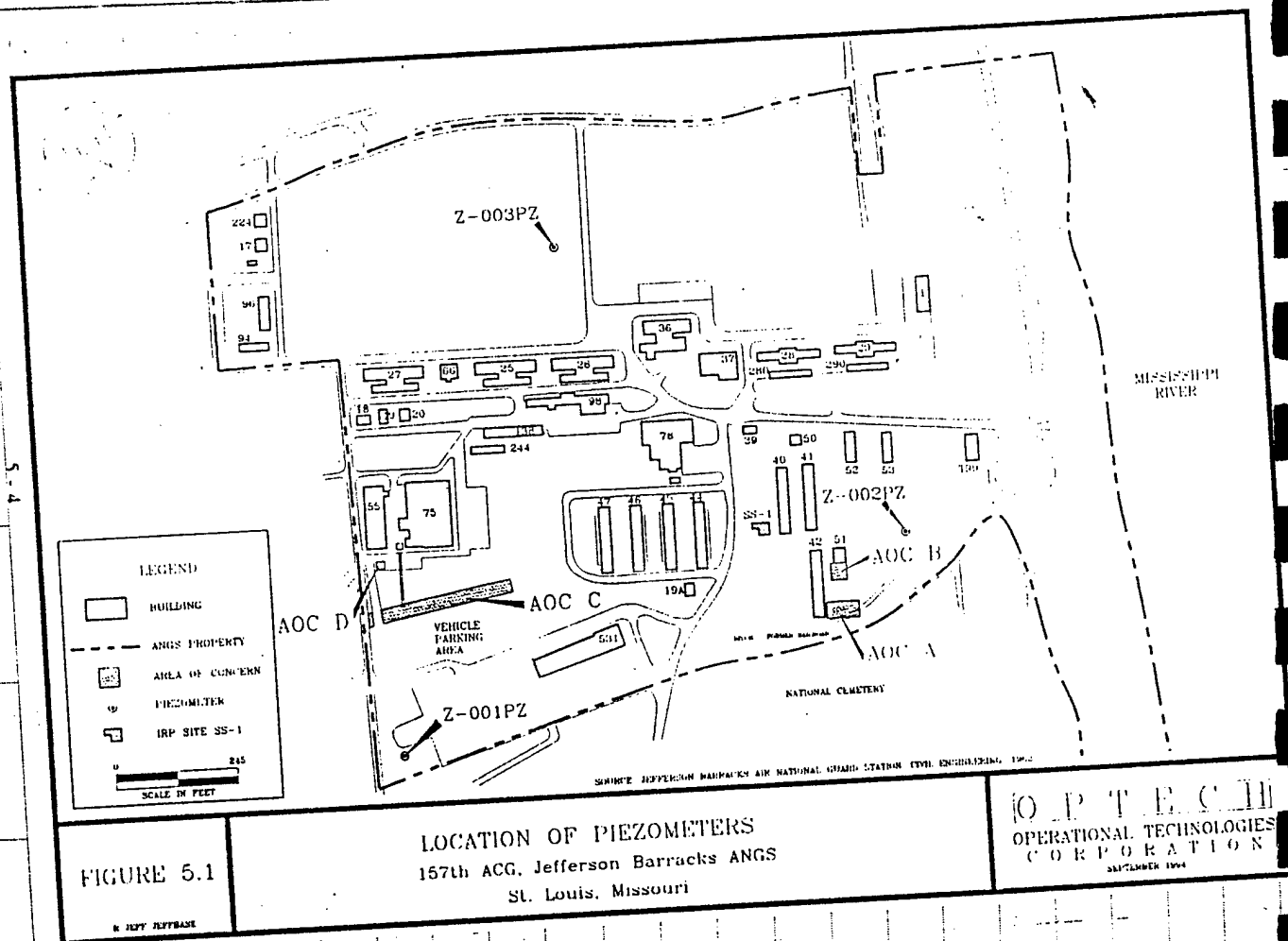
FIGURE 5.7  
AOC D PROPOSED  
SAMPLING PLAN  
157th ACG, Jefferson Barracks ANG,  
St. Louis, Missouri

OPERATIONAL TECHNOLOGIES  
CORPORATION  
SEPTEMBER 1994

# Emergency Route to Hospital



# Piezometers (Proposed)



⑨

11/30/94

WEDNESDAY

Premobilization Meeting

1400 HRS

Conference Room, Optech  
San Antonio, TX

In attendance:

Earl Parker - Site Manager  
Russell Cason - SSO  
Matt Alexander - Geophysical Survey  
Mark Henson - Field GC  
Destry Greenway - Field Tech  
Steve Wilson - Corporate HES

Began meeting discussing final issues of supply and equipment. Identified what was still required and discussed plans to load on Friday to travel to St. Louis. Then discussed field schedule and discussed aspects of each days activities as planned. Concluded with discussion of Health and Safety issues. Steve Wilson ended with Safety Briefing.

Earl Parker 11/30/94

Earl Parker

⑩

DAY 1

MONDAY

12/5/94

0730 Arrive at Jefferson Brackets ALBS.

0815 Drive up at Bldg 290, Station CE

Office. Check in and confirm meeting set for 0900. We will walk the AOCs to see the station prior to the in-briefing.

0830

Inspect AOC A and B. Walked over to AOC D and C but it was locked up and we didn't have enough time to walk around before the in-briefing.

0900

Inbriefing w/ station personnel.

Present: Earl Parker

Russ Cason

Matt Alexander

Destry Greenway

Mark Henson

MAS Keith Parrish -

MAS Tom Wamble -

TSGT Art Schermerman -

MSGT Malcolm Jones -

Have introductions, Then brief the

Earl E. Lusk  
12/5/94

(11)

station on Project Scope, Itinerary, state support we need from the station. Earl briefs on AOC's, proposed plans, inquires on desired locations for Inspection Derived Wasted drums, Decem areas, field GC room.

Introduces Russ Cason who discusses Health and Safety plan and procedures.

Discuss digging permits. Station is completing plugging permit. Gloria will have that for us.

0940 Meeting ends after all questions are answered. TSGT Schuermann and crew walk down to Bldg 44 to see our GC Room.

1000 Meet with Gene Lysaght at Bldg 44 and see GC room. Looks fine. Have DG and MH begin to unload equipment. TSGT Sch. and EP. MA, and RC go to Bldg 55 to meet with Ron Annett, OMS shop chief to see AOC-C and D.

Earl E. Lusk  
12/5/94

(12)

1015 Inspecting AOC-C and AOC-D. AOC-C is at the bottom of the hill and is fine with no problem with drill rig access.

Cannot readily identify hole that defines AOC-C. Will have to call back to Ross Murray to better identify where the hole for AOC-D is. Go back to Field GC Room.

1040 TSGT Sch. goes back to office. We all complete unloading UAM and organize equipment in field GC room. Matt calls and talks to Michella Bowman and gets good idea of where the hole is.

1110 MA and RC go to CE office to retrieve FAX and inspect AOC-C again. MH and DG continue to organize equipment and set up field GC area.

1140 MA and RC return from CE office.

(13)

Earl E. Fink  
12/5/94

We All depart site for lunch. EP and DG will return from lunch to site to begin to stake out locations. MA, RC and MH will return to Hotel to pick up Geophysical Survey equipment.

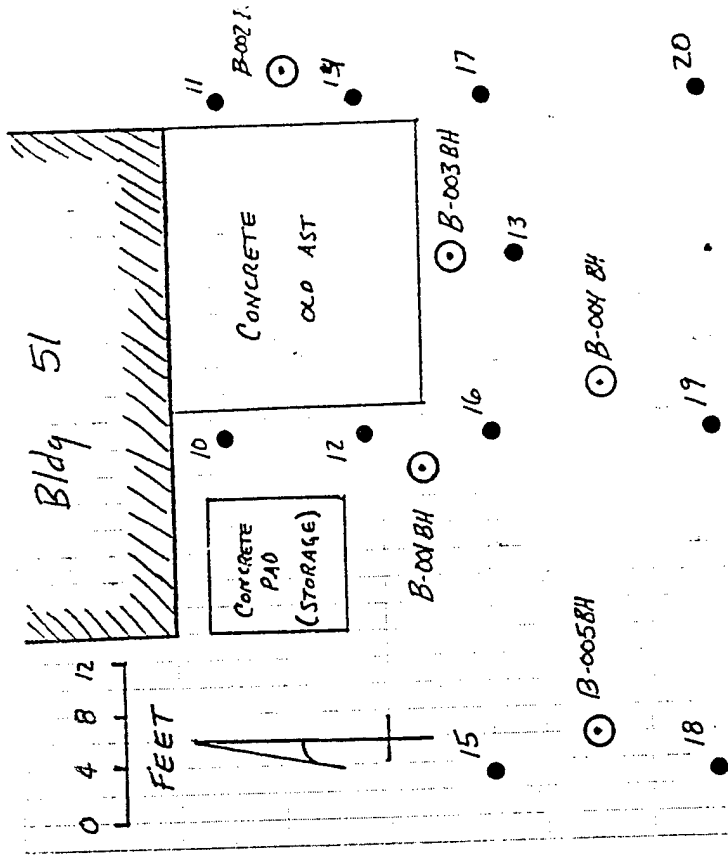
1230 EP and DG return to station and prepare to set up locations. Will begin at AOC-A and B.

1240 Rest of the crew arrives from Hotel with equipment. They will go to AOC-D to lay out geophysical survey grid. EP and DG. go to AOC-B and set up grid and boring locations.

1310 Arrive at AOC-B to set up soil gas survey points and soil boring locations. Scale off Soil Gas Survey points. At this AOC, SGS points are numbered SGS 10 to SGS 20. Total 10 SGS points. Tentatively locate 5 Boring location. B-001BH to B-005 BH.

Earl E. Fink  
12/5/94

(14)

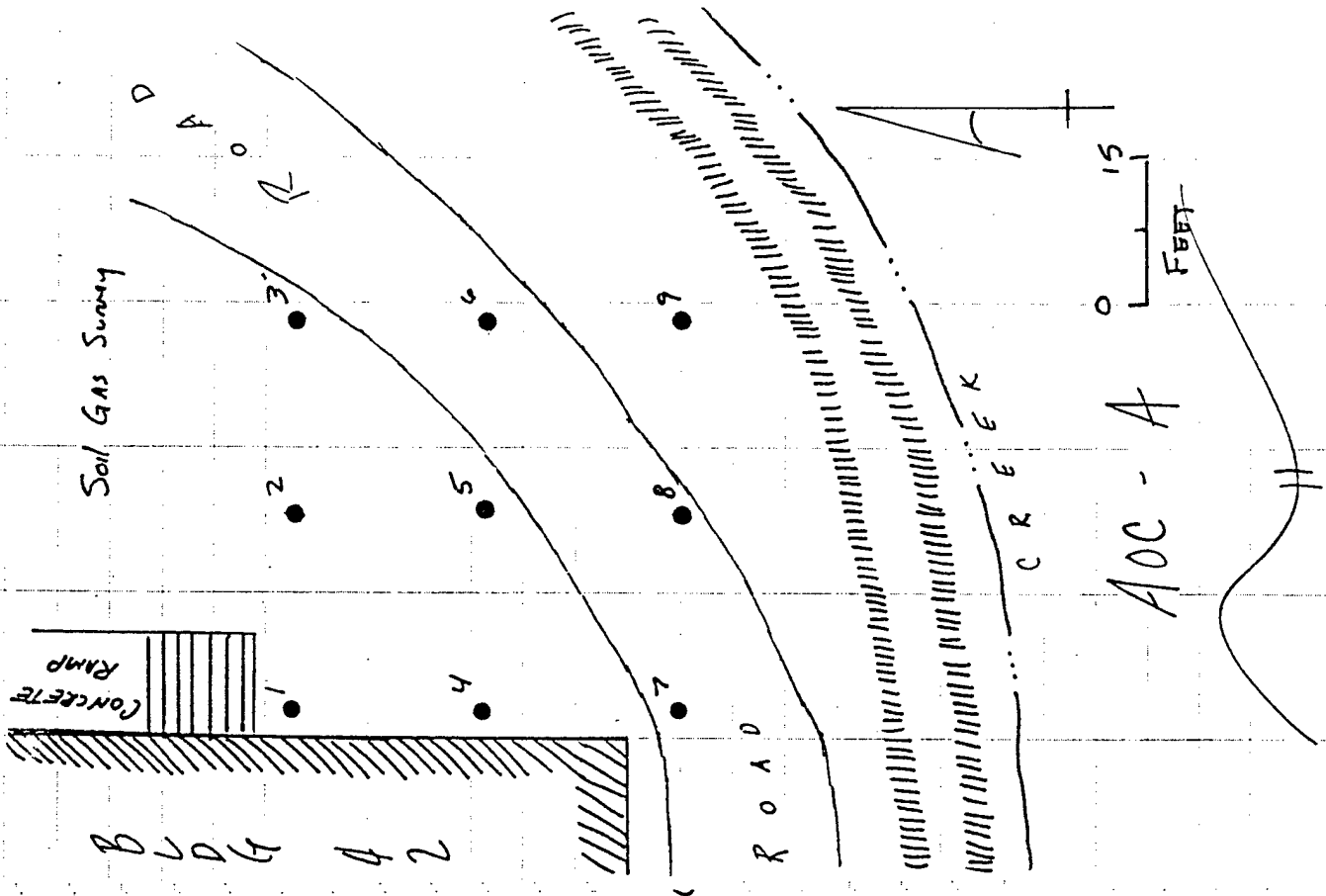


— AOC - B —

1420 Move to AOC-A and set up soil gas survey and boring locations at AOC-A. Measure and mark off 9 soil gas survey and 3 boring location. Do not mark with flags or stakes since geophysical survey will have to be conducted.

(15)

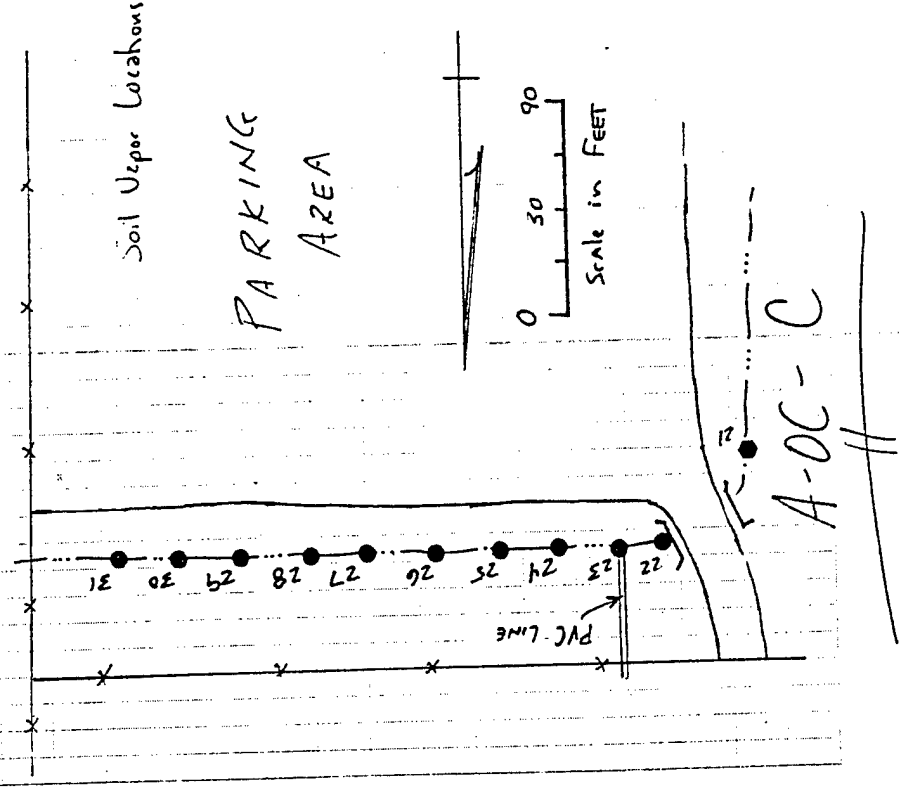
Eric S. Lush  
12/5/94



Eric S. Lush  
12/5/94

(16)

1535 Move to AOC-C and prepare to set up soil gas survey points and soil boring, sediment sample locations. There is no surface water in the drainage ditch. It appears there is only water during a rain event. No indication that water stands in this location.



(17)

1615 Complete setting up at AOC-C. Move up to AOC-D and observe Geophysical survey area as layed out by Math. Decide not to lay out soil gas or boring locations until geophysical survey is completed tomorrow morning. Move out to find crew at AOC-A.

1625 Go to meet crew at AOC-D. We will test magnetometer but not at AOC-D since the shop will lock the gate at 1645. We decide to go to AOC-D to test equipment since we can spend all the time we need.

Go to see if TSGT Schenemann is still in to touch base with him. He is not in.

1645. Math, Rus, and Mark are testing out GPR and magnetometer. Things are going well but it is beginning to get colder and dark. Begin to load up and clear the site.

Earl E. Paul  
12/5/94

(18)

1650 Load up and everyone departs the site. Drive back to Hotel.

1715 Return to hotel. Call Optech to check messages. Terry Hart called. He is the president of the Drilling Contractor.

Earl calls him and he talks about coming out to the site tomorrow to begin to stockpile equipment. Driller will be out tomorrow and we arrange to walk the sites tomorrow to see what vehicles may need to be moved.

1920 Don Winston and Scott Schroeder arrive at the Hotel. They are from DHL and are contracted to conduct the Soil Gas Survey. We talk about the plan and give him directions to the site. All seems ready to begin tomorrow.

END DAILY ACTIVITIES

12/5/94

Earl E. Paul

9 hrs

(19)

12/6/94

## DAY 2

TUESDAY

0735 Arrive and Station. All Optech crew are present. Meet at GC room in Bldg. 44. Prepare for daily activities.

0750

Safety Briefing

Earl Parker  
Russ Cason  
Matt Alexander  
Dedy Greenway  
Mark Hanson.

Optech.

Discuss the day's plan.

Matt, Russ, and Dedy will conduct the geophysical survey beginning at AOC-D, then AOC-A. Mark will supervise and assist in decontamination at the Soil Gas Survey.

Russ Cason gives daily safety briefing. Discusses site history and potential contaminants, site hazards, emergency procedures and evacuation plan.

WEATHER: Overcast and cool. Slight possibility of drizzle throughout the day. Very little breeze from the northwest. Hi: Today will be mid 40's.

Earl Stuckert  
12/6/94

(20)

0800 Matt and crew prepare to move to AOC-D to begin survey. Mark Hanson prepares decon equipment for soil gas survey.

Earl phones ANERC to talk to Dan Wyatt concerning Zanesville and phones office for daily coordination.

0805 DHL arrives at the station. All go to AOC-D to give safety briefing to DHL personnel.

Earl walks the AOC-C and D site w/ DHL people. Russ gives safety briefing.

0815 Safety briefing

Don Winston } DHL  
Scott Schroeder }

Russ gives safety briefing. Provides all applicable site history, potential contaminants, emergency procedures, site hazards, and evacuation plan. Observes all OSHA certificates to insure they are up to date.

(21)

0830

DHL moves mobile lab to behind Bldg 4/ where it will operate for duration of project.

Walk AOC-A and B with Don Winston. He goes back to help Scott prepare. He will go to AOC-C to begin when ready.

Mark Hanson will supervise/assist w/ Soil gas survey.

0900

Earl goes to CE HQ and obtains the digging permit and utility plans from Gloria and gets approval from T&E Schuermann on Area for drillers to stockpile equipment.

0920

Call Lee Perry at ANGRC to give daily status. Everything is on schedule so far. He was not in, left a voice message and will call him later.

0930

Call John Morris at Optech for daily status. He was also not in and left a voice message.

and in Jan  
12/6/94

(22)

0940

Arrive at AOC-C/D Area. Everything is going well. Geophysical survey crew is completing MAG Survey. Soil Gas Survey has begun at AOC-C.

1000

Geophysical survey MAG survey is complete, preparing to do GPR. Soil Survey has pulled three vapor samples at AOC-C.

1015

Taking first three soil vapor samples to Lab. Showing Mark Hanson rubric lab setup. As we were walking into the Lab the drillers drive up to stockpile equipment. Mark Hanson stays with LAB.

1020 Meet drillers. Hart Environmental Drilling.

TERAY HART - President

Max - driller

Mike - helper

They have arrived with supplies to stockpile. Show them where they need to set up decon area and area to stockpile equipment. Talk about drilling plans and

Earl E. Hahn  
12/6/94

(23)

Schedule. They will make several trips today to stockpile chains and drilling supplies and equipment. Terry will bring OSHA H&S documentation tomorrow. Our briefings were over, I left them to work and returned to AOC-C/D where everyone was working.

1110

GPR survey has all checked out and they are preparing to conduct the survey. Mark and Don are proceeding well at AOC-C with soil vapor survey. Weather is holding out so far. No rain.

1140

SGS people prepare to break for lunch. Have completed 8 samples at AOC-C. Mark and Rui go to lunch. Matt, Leahy and Enl remain behind to complete GPR at AOC-D.

1230

Complete GPR at AOC-D. Run a few GPR traces across known lines for comparison.

Earl E. Hahn  
12/6/94

(24)

1245 Go to field GC room to download mag data on a computer. Russ and Mark Henson return with lunches. Check with DHL. Have analyzed 8 samples from AOC-C and have New-Detect on all samples so far.

1250 Don Winslow (DHL) returns to collect final 3 samples from AOC-C.

1315 Matt, Russ, and Leahy go to AOC-A to perform geophysical survey at that location. DHL complete at AOC-C, moving to AOC-B.

1430 DHL completes SGS at AOC-A. A slight petroleum odor was sensed at SGS #12. Geophysical survey continues. They are about half complete at the MAG Survey. DHL prepares to move to perform SGS at AOC-D. Earl and Mark finish marking SGS locations at AOC-D.

✓

1430 DHL moves to AOC-D for SGS. Go over to Lab to see how sampler are going. Says there was some BTEX in SGS 12 but it wasn't finished being analyzed.

1510 Don, Earl and Mark go to AOC-D to begin to obtain samples.

1535 Earl departs AOC-D to go back to geophysical survey at AOC-A. Mark will stay with Don at the SGS Survey.

1540 Soil Gas Survey going well. Arrive at AOC-A when geophysical survey is going fine. They are about  $\frac{3}{4}$  through with the Magnetometer survey. Will stay here and assist.

1620 Complete Magnetometer survey. Mark arrives in the area. DHL is finished obtaining soil gas from AOC-D. Obtained 31 of 41 samples. DHL will provide data once all analysis are

completed. Day will do final 10 SGS points at AOC-A tomorrow. Prepare to begin GPR survey. All Optech personnel at AOC-A.

1705 Complete GPR survey at AOC-A. Getting dark and very foggy. Matt is compiling data, All else are beginning to pack equipment. DHL is continuing to analyze samples and conducting quality checks.

1715 All boxes are packed and are ready to depart site. DHL will provide summary sheet at the hotel once it is complete. DEPART STATION.

1730 Arrive at HOTEL  
Finished for the day

12/6/94

Sal E. Lash

9.5 hrs

(27)

12/7/94

DAY 3

PEARL HARBOR DAY

Around at the Station.

0730

- Mark Hanson begins to set up field GE.
- Matt Alexander prints out geophysical survey data and compiler results.
- Russ Cason calibrates and checks out Health and Safety equipment.
- Earl and Destry stake Soil Gas Survey locations at AOC-D for VHL.

0800

Drillers arrive on site w/ drums and other equipment. Begin to unload at their stockpile location.

0815

SAFETY MEETING

- |                 |   |           |
|-----------------|---|-----------|
| Russ Cason      | } | Optech    |
| Earl Parker     |   |           |
| Destry Greenway | } | Hard Env. |
| Max Tinnin      |   |           |
| Mike            |   |           |

Initial safety orientation to drillers. Discuss potential contaminants, itinerary, emergency procedures and evacuation.

11

Earl Alexander  
12/7/94

(28)

Obtain OSHA certification. Orient each other on emergency procedures.

WEATHER: PE to mostly cloudy, cold and windy. Hi. low 40s. chance of very light rain.

0830 DTL arrives on site. Russell gives them a safety briefing on AOC-A. They will begin to collect AOC-A soil gas when ready.

Drillers are continuing to prepare for drilling. They are steam-cleaning Augers and the rig.

0840 Matt Alexander arrives to brief me

on geophysical survey findings. No subsurface obstructions were found. Some trenches or collapsed areas were detected and marked. A trench at AOC-A seems to coincide with former concrete pad location. Following his presentation, Destry goes to bring him back to Hotel for flight back to San Antonio. MATT Alexander departs Station.

11

(29)

1035

Drillers completed deconning are we are all moving over to the Z-002PZ (PZ-2) location. Begin to set up the sample prep area and decon area.

1050

Don Whelan from DHL arrives at the area to provide final report. Completed last 9 S&S points at AOC-A location. DHL is finished and departs Jefferson Barracks ANG.

### SOIC GAS SURVEY COMPLETED

1100

Begin to drill at PZ-2 location. When return. Go to phone Lee Perry at ANGAC/CAR.

Talk to Lee Perry on Soil Gas Survey and proposed drilling at Piezometer location. The situation may occur where bedrock is encountered before groundwater. This situation is discussed and I will call back at 3:15 (4:15 in Washington) to report on groundwater situation.

Earl Hanson  
12/7/94

Earl Hanson  
12/7/94

(30)

1110 Begin to drill at PZ-2.

Will record all data on Soil Boring LOG in the field notebook binder.

1230 Completed drilling at PZ-2 location.

Bedrock was encountered at 28.0 feet BLS. Bedrock is a micritic limestone. Confirmed by HSA refusal and SPT blows. No water was encountered. Will break for lunch and check for water after drilling.

1240 Russ goes to get lunch for Deshy

and Mark Henson. Earl and Deshy break down decon and sample prep area. Drillers depart the site for lunch.

1315 Drillers return from lunch. They are still taking a break.

1330 Russ returns with lunch. Deshy and Russ take a break to eat lunch.

—//—

(31)

1340

Lunch is over. Drillers pull the drill rods from the HSA's. Earl and Deshy get the water level indicator and see if there is water in the hole. There was no water. It was dry to the bottom.

Drillers begin to break down to decom augers. Earl and Deshy depart PZ-2 location.

Call Mark Escobar at Optech to accelerate delivery of caps. And vials needed for soil sampling. Call lab to accelerate sample kit delivery.

Earl and Deshy go to Z-001PZ location to set up decom and sample prep station. Russell will bring drillers down once they are finished cleaning the augers.

Russell and drillers arrive at PZ-1 location. Prepare to drill.

1415

✓

Earl Escobar  
12/7/94

Earl Escobar  
12/7/94

(32)

1425 Begin to drill at PZ-1. Pushing spoon to collect surface sample. Will record all field data on the Boring log form in the field notebook binder.

1430 Encounter obstruction at 2.0' BLS. Try to drill through it but it appeared to be a concrete material and we decided to move off the location and try again. Moved 10 feet to the north and began to drill again.

1445 Drilling going well on next location. Will record all data on Boring log form in field notebook binder.

1530 Completed drilling PZ-1. Encountered bedrock at 20 feet BLS. This well had a perched water table over the bedrock. Although water was encountered at 15' BLS, the soil was not really saturated but was much more clay rich than the PZ-2 location. Beginn to get dark so the drillers will

✓

12/7/94

Secure the site now and will complete the well tomorrow. Will have to call Lee Perry and discuss the hydrologic situation and see how he wants to proceed.

Encl is departing location to go to Billy A to secure the geophysical equipment for FED-EX shipment.

1620 Russ and Desky and drillers arrive at Bldg 44 following securing PZ-1 location for the evening. Drillers go to clean area and steam clean PVC for one well in anticipation of possible well construction at PZ-1 location. Secure the clean area for the night.

1640 Drillers drive by and report they are secure. depart for the night.

1705 FED-EX Arrives and picks up geophysical survey equipment.  
Secure for the night and prepare to depart the site.

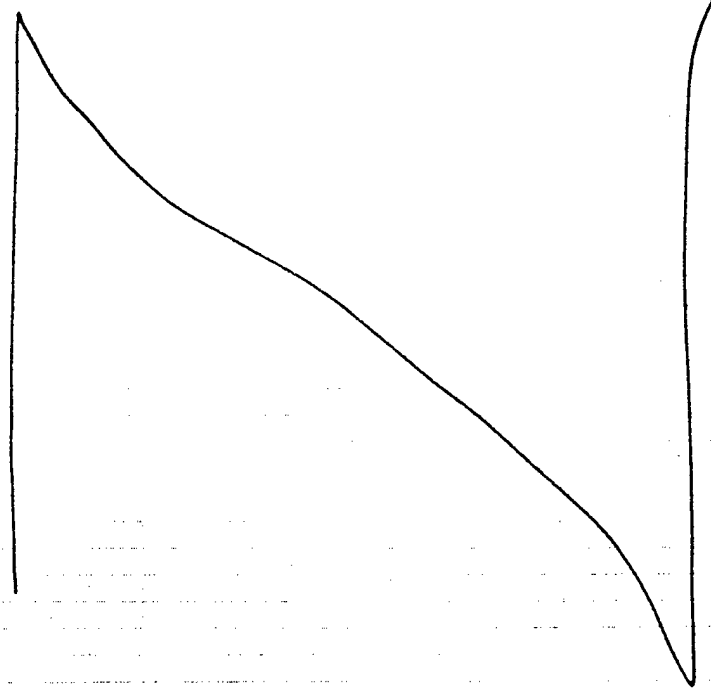
✓ H

12/7/94

1710 Optech departs for the night.

1730 Call John Morris from hotel and give him briefing on status of PZ drilling. Discuss options to discuss with ANGRC. Told him I would talk to Lee Perry tomorrow morning to discuss strategy.

End of Daily Activities



12/7/94  
E. E. Andrews (10 hrs)

(35)

12/8/94

DAY 4

Zal Elzab

THURSDAY

0730

Arrive at Station. Prepare for daily Activities. Drillers arrive right behind us and go to clean area to check equipment.

0750

Safety Meeting

Russ Casen

Earl Parker

Dusty Greenway

MAX

Mike

} Optech.

} HART

Discuss daily safety concerns and review health and safety considerations, evacuation, daily plan.

Weather: Cloudy, breezy and cold.  
Hi - low 40's turning drizzly in the late afternoon. Winds are light out of the north.

0800

Call Lee Perry at ANGEC and inform him of yesterday's findings. Discussed the topography, geology, and depth to bedrock and groundwater. Lee Perry

Zal Elzab

12/8/94

(36)

will discuss the situation with hydrologist at ANGEC and he wants me to call him back to discuss the plan.

0815 Go to P2-2 location and check for water. There is no water there.

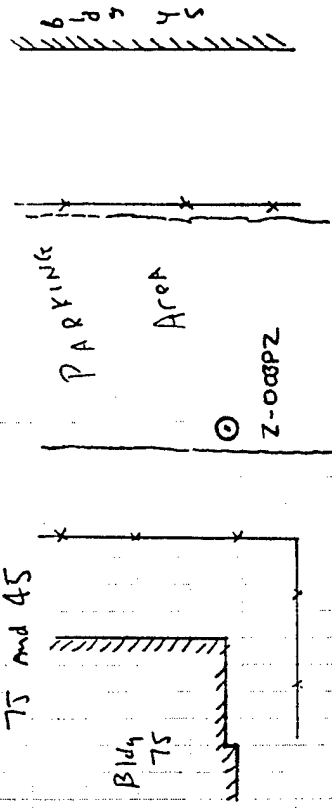
0825 Go to P2-1 location and obtain a

water level. WL: 10.21' BTOC

TD: 20.0' BTOC

$\therefore$  9.79' of water in well

0840 Call Lee Perry. Will move P2-3 location. Will leave P2-1 as is for now and will drill P2-3 in vehicle parking area exactly east of southern portion of Bldg 75, between Bldg 75 and 45



if water is encountered to construct a well at the new PZ-3 location, another well will be drilled (PZ-2) in an area east of Bldg 531 to triangulate. If no water is encountered at PZ-3, will call again to confirm no wells will be constructed at the facility.

0910 Move out to inform everyone of the plan. Drillers will move to PZ-3 location after they decon.

Deshy and Russ move to PZ-3 location and set up decon and sample prep tables.

1010 Everyone is ready. Prep to drill at new PZ-3 location.

1020 Begin to drill at new PZ-3 location. Recording all data on field log form in field notebook binder.

1140 Complete drilling at PZ-3 location.

Encountered bedrock at 15' BLS. No water was encountered in the hole. Soil was not wet. Will wait to see if water infiltrates. Deshy and Russ brank down decon and sample prep table.

Drillers will pull augers from the hole and will begin to grout the two dry piezometer locations. Will not grout the PZ-1 location until we confirm w/ Lee Perry we will not install piezometers.

1225 Call Lee Perry and inform him of dry well at PZ-3. He confirms to grout piezometers. We agree to begin soil sampling tomorrow.

Drillers are instructed to decon all their augers and grout the PZ-1 location. Russ will stay with drillers to observe/assist. Deshy and Mark Hanson will decon brass sleeves and end caps for tomorrow's sampling.

1430 Deconning brass sleeves and end caps

(34)

Earl Edwards  
12/8/94

in basement area of Bldg 44. Earl inventories NEI ice chests and other FED-EX things received. Russ comes in to report. Drillers are though grouting and are clearinging Rogers.

1510

Drillers depart site to go purchase cement for tomorrow's grouting. Russ joins and helps in sleeve and end cap deconning.

Call Randy Tymon (Land Surveyors) and begin to coordinate the land survey job. He is ready to work with us. Will call him again on Monday to schedule the Station walk through.

1540

Drillers obtained cement. Drillers are departing the station for the day.

1600

Complete deconning sleeves and caps. Begin to secure the room for the night.

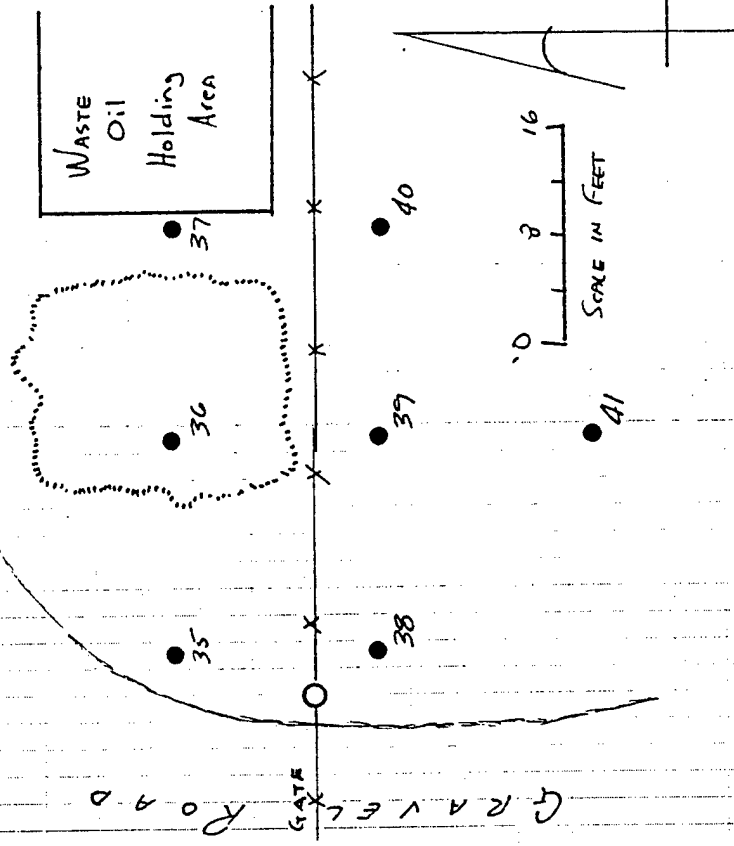
1/1

Earl Edwards  
12/8/94

(40)

1610 Depart Bldg 44. We go to AOC-C and D to measure in the AOC's. Measure in AOC-D.

32 AOC-D 33 34



1640 Complete measuring in AOC-D. Prepare to depart the site. Go back to Bldg 44 to pick up supplies.

1700 DEPART STATION FOR THE DAY

12/8/94 Earl Edwards 9.5 hrs

12/9/94

DAY 3

FRIDAY

0700 Arrive at Station. Go to Decon Area. Drillers Arrived. Preparing rig for daily operation.  
Go to bldg 44 to prepare for daily activities.

0750 Call Lee Perry at AUSEC. Discuss soil boring placement based on soil gas surveys. Finalize boring locations at AOC-C. Decide to move one boring from AOC-B to AOC-D to test near area of high TPH on soil vapor survey. Therefore AOC-D has two boring locations and AOC-B has one four soil boring locations.

0800 Safety Meeting  
Russ }  
Earl } Optech  
Destiny }  
Mark }  
Max } HART Environmental  
Mike }  
Discuss the daily plan to sample at

12/9/94

DAY 3

FRIDAY

AOC-C and D. Review potential contaminants, emergency procedures, evacuation, hazards.  
Weather: Cloudy and cold today. Breezy.  
wind out of West at 5 mph. Hi: low 40's.

0815 Prepare to move out to AOC-D location. Drillers will load up and move when ready. Optech goes to Bldg 44 and load up for field area.

Mark Hixon and Destiny load up stuff to set up decon area and sample prep area. Russ Eason drops me off at AOC-D to set up and goes to call John Morris concerning HES Issue.

0830 Everyone Arrives at AOC-D and set up over AOC-D-001BH location. Setting up sample prep and decon station. Drillers are checking subs to fit or California style split spoon sample. They are having trouble getting a fit.

0930 All set up. Still waiting to ensure sub for sampler will work.

(43)

Carl E. Hansen  
12/9/44

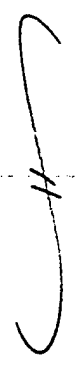
- 0940 Begin to drill at D-001 BH. Gravel at the surface. Cannot sample gravel. Drilling to bottom of gravel. Gravel to 10' BLS.
- 0955 Beginning to sample at D-001 BH Int 1. Will begin to record field data on boring log forms in the field notebook binder.
- 1050 Complete drilling at D-001 BH. Total depth 26.8' BLS.  
Bedrock confirmed by HSA refusal.  
Int 1 - 10-11.5' BLS  
Int 2 - 15.0-16.5' BLS  
Int 3 - 25.0-26.5' BLS  
- No readings at any interval on PID.  
Drilling complete. Moving to D-002 BH location. Going to decon area to decon augers.
- 1100 Mark Hansen departs site to go to hotel to pick up new field GC.



Carl E. Hansen  
12/9/44

(44)

- 1130 Drillers are finished deconning augers and return to AOC-O and set up over D-002 BH. Preparing to drill at D-002 BH.
- 1135 Begin to drill at D-002 BH. Will record all field data on the Boring Log Form in the Field Notebook binder.
- 1340 Complete drilling at D-002 BH. Total depth is 22.8 BLS.  
Bedrock confirmed by SPT and HSA refusal.  
Int 1 - 9.0-10.5' BLS  
Int 2 - 15.0-16.5' BLS  
Int 3 - 21.5-23.0' BLS  
Max reading on PID was 10.5 ppm on spoon check.  
Drilling complete at D-002 BH and at AOC-O. Drillers break down rig and clear hole.
- 1350 Drillers break for lunch. Deshy Boss and Earl break down decon/sample prep area.



1410 Drillers return from lunch and begin to ~~decon~~ <sup>grout</sup> at AOC-D.

1430 Optech persons go to AOC-C to begin to set up sample prep and decon area at C-001 BH.

1510 Drillers finish deconing Augers and com to AOC-C to set up over C-001 BH. The ditch is pretty steep at this location and boring will be located on the side of the ditch.

1520 Drillers begin to drill at AOC-C C-001 BH. Drilling data and field data will be recorded on the boring log form in the field notebook binder.

1545 An obstructor was encountered at 5.0' BLS at this location. The Augers could not drill through it. It may be a large rock. We

do not think we are deep enough to encounter bedrock. We will have to move off this location. Will move 4.0 feet south along the ditch line.

It is too late in the day to continue. Will grout this hole and drill again at the new C-001BH location on Monday.

1555 Drillers move off C-001 BH and return to decon area to clean Augers for the day. Grout the 5.0' C-001BH location w/ bentonite chips.

Drilling at C-001BH

Int 1 0.5-2.0' BLS

P10: 0.0 PPM

Will obtain additional intervals at adjacent location on Monday.

1600 Earl breaks down sample prep/decon area and prepares chain-of-custody form for samples collected. Dester and Russell go to collect 3 sediment samples at the AOC-C location.

(41)

Carol E. Kahl  
12/9/94

1620 Complete chain-of-custody form and finish pickup of sample prep/decon area. Collect sediment samples.

Obtain sediment samples from Russell

C-001 SED - 0.0 PPM

C-002 SED - 2.0 PPM

C-003 SED - 2.3 PPM

1645 Go to Bldg 94 and prepare samples for FED-EX delivery. Seal Chain-of-Custody, seal ice chest and sign Custody seals.

1650 FED-EX delivery arrives at site. Complete Air-Bill. Mark Hanson ships back first field GC. Doherty checks drums at the AOCs. Ross observes decontaining of drillers.

1715 Drillers depart site for the day. Optech. secures Bldg 94 room for the night. Russ reports Methanol incident to ANGRC PM.

1745 Optech departs station.

Carol E. Kahl  
12/9/94

(48)

Reviews all paperwork for the week. Will go to the Station on Sunday to insure All drums are secure and marked and check grouting of piezometers and borings. Noted it took almost 1 hour to decon 6 Augers for a boring location because of the sandy silt and clay material. This may affect the schedule.

12/9/94 Carol E. Kahl

10.5 hrs

12/10/94

DAY 6

SATURDAY

No Work Related Activities

12/10/94

Earl E. Loh

0.0 hrs

12/11/94

DAY 7

SUNDAY

1300 Arrive at Station to check site and clean up in preparation for next week's drilling. Mark Henson will stay to analyze soil samples collected on Friday on the Field GC

Earl, Russell, and Deshy go to all boring locations and insure all drums are secured, labeled, marked. Borings will need additional grout due to settling.

Go back to Bldg 44 and clean equipment and inventory equipment.

1500 Earl, Russell and Deshy depart Station. Mark Henson remains to analyze field GC samples

12/11/94

Earl E. Loh

2.0 hrs

(51)

12/12/94 DAY 8 Monday

0640

Arrive at the Station. Drillers arrive at the Station. Prepare for operations.

0730

Safety Briefing

Russ Carson }  
Earl Parker } Optech  
Deshy Brunway }  
Max Timm } HART  
Mike }

Discuss daily activities, hazards by the site and review evacuation and emergency procedures.

Weather: Cold, cloudy, breezy. Mostly cloudy and breezy. Temp: 25° Hi: low 30's.

0800

Begin to drill at C-001BH Again. Large rock under surface. Once mound drilling down to 5.0' BLS. Encountered same obstacle at 5.0' BLS. Will drill third hole to 3.5' to obtain Interval 2 sample and call it a hole.

0810

Could not obtain Interval 2 sample from

Zaid El-Ghaili

12/12/94

(52)

this location because of large rocks at 5.0' BLS. Seams too high for bedrock, but we cannot penetrate to collect any samples. Will not obtain Interval 2 sample at this time.

0815 Lee Perry (ANGEC) and Dan Okley (HAZWAP)

Arrive on site. Give site orientation.

Drillers are moving back to decon pad to steam clean riggers after C-001BH location.

Optech and ANSEC/HAZWAP go to Bldg 44 to show them the field BC. Russ checks on drillers at the decon pad.

0825 Walk over to the decon area to

show Leo Perry the AOC-A and AOC-B locations. Walk those areas while drillers prepare to move back to the C-002 BH location.

0840

Arrive at the C-002 BH location.

Ground seems soft. May have some problems.

(53)

0930

Propose to drill at the C-002 BH location. Drillers over the hole. Will record all information on the Boring Log Form in the field notebook binder.

1045

Complete drilling and sampling at C-002 BH location. Data obtained and samples collected are:

	PID
Int 1	0.5-2.0' BLS 2.3 PPM
Int 2	5.0-6.5' BLS 0.5 PPM
Int 3	11.5-13.0' BLS 0.5 PPM

Bedrock encountered at 13.5' BLS and confirmed by HSA refusal. No water encountered during drilling, but water seeped into bottom of hole after drilling.

1110

Drillers have trouble getting out of the C-002 BH location. Ground is very soft. Ruts in the ditch area. Go to MSE Annex to move some vehicles so we can approach the remaining C-AOC borings from firmer ground. Drillers move to decon area to clean rig and Augers.

Carl E. Fawcett  
12/12/94

1200

Begin to drill at C-003 BH. Will record all data on field Boring Log forms in the field notebook binder.

1235

Complete drilling at C-003 BH. Will move to C-004 BH. Drilled to 7.5' BLS where bedrock (?) was encountered by HSA refusal. Drilled to confirm it was refusal. Data obtained and samples collected are:

	PID
Int 1	0.5-2.0' BLS In - 1.3 PPM
Int 2	5.0-6.5' BLS 0.8 PPM
Int 3	Not Collected.

1240

Drillers move to Decon area to clean Augers and will take lunch.

1248

Dan Oakley provides quick briefing.

- Health and Safety: Check records from Auditor & AUGER
- Better define exclusion zone to include sample prep table.
- Volatile samples need to be collected ASAP.
- Screening sample should be collected ASAP.

Zal & Karl  
12/12/94

- Collect screening sample from the shoe.
- Should not use plastic bottle for DI water spray.
- ASTM Type II water. We have Type I
- Immediately grab holes, change wip to good at the end of the day.

1255 Conclude HAZWRAP briefing. Departing site for lunch. Earl will remain on site to monitor site.

1330 Russ and Destor return from lunch. Earl goes to Bldg 48 to call for FED-EX pickup and to call Surveyors.  
- FED-EX pickup arranged.  
No one at surveyors office.

1345 Drillers return from obtaining cement and lunch. Move over 004-BH at AGC-C.

1355 Begin to drill at C-001 BH. Will begin to record Borings log data in Field Notebook Binder.

||

Zal & Karl  
12/12/94

1400 HAZWRAP and ANGRC return from lunch. Drilling at C-004 BH.

1435 Complete drilling at C-004 BH. Collected two samples. TD: 6.5' Confirmed by HSA refusal and SPT Counts. Samples are as follows:

Int 1	0.5-2.0' BLS	1.5
Int 2	5.0-6.5' BLS	1.8
Drillers moving to decon then to AGC-C, C-005 BH.		

1445 Drillers documenting Angers. Russ prepares C-005 BH.

1455 Drillers set up over C-005 BH. Will record all field data on boring log forms in Field Notebook Binder.

1530 Complete drilling and sampling at C-005 BH. Collected two samples. TD: 8.2' BLS Confirmed by HSA and SPT refusal

Int 1	0.5-2.0' BLS	1.0 PM
Int 2	4.5-6.0' BLS	1.3 PM

||

57  
12/12/94

Drillers begin to grout borings drilled today and will top off borings grouted Friday. Then they will move over to decon area and clean augers. Russ will observe drillers.  
Desky breaks down sample prep and decon station.  
Earl prepares chain-of-custody for samples.

1610  
Drillers grouting AUC-C borings.  
Finish chain-of-custody forms. Loading And Dan Oakley move to Bldg 44 to observe field GC operations.

1615  
Mark Hanson arrives at AUC w/ Dan Oakley to pick up last GC samples to analyze.

1630  
Complete packing van w/ sample prep decon material. Drillers completing the grouting of AUC-C borings. Depart site to go to Bldg 44 w/ samples to wait for FED-EX shipment. Drillers

4

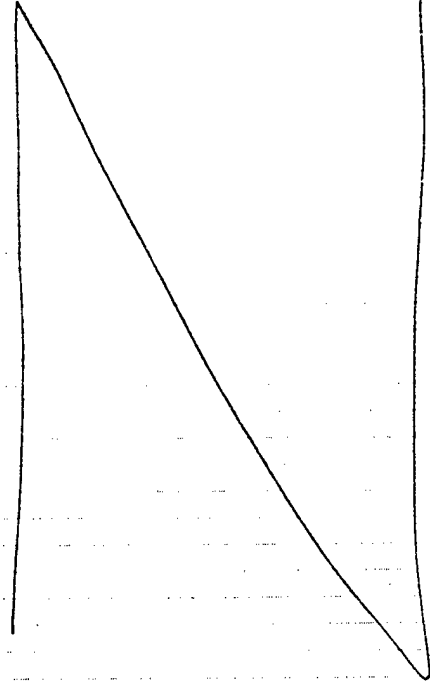
12/12/94

go to decon area to clean augers.

1710  
Drillers depart the site after decontaminating, drumming decon water and securing equipment for the night. Mark finished analyzing samples w/ field GC. Russell and Earl obtain ATHA from soil from AUC-C borings.

1715  
FED-EX arrives to obtain soil samples. Make shipment of samples.

1720  
Secure building and Optech, HAZMAT, ANGRC depart station.



12/12/94  
Earl & Paul  
10.5 hrs

(62)

Carl E. Pash, Jr.

12/13/94

DAY 9

TUESDAY

0650 Arrive at Station. Drillers arrive at Station. All prepare for daily operations at AOC-B.

Drillers warming up equipment.  
Optech prepare equipment.

0745

Safety Meeting

Russell } Max } HART  
Desky } Mike }

Encl Dan Oakley - HAZWOP

Discuss daily activities and potential site hazards. Review emergency and evacuation plans. discuss cold weather concerns.

WEATHER. Cold. PC to mostly clear. No breeze. Temp: 28°. Hi: expected around 40°. Clear. Breezy out of SE west.

0800

Continue to set up at AOC-B. Will begin at B-001BH.

0810

Begin drilling at B-001BH. Will record all field data on boring log form

Carl E. Pash, Jr.

12/13/94

In field notebook binder.

1140 Complete drilling and sampling at B-001BH. Bedrock was encountered at 31.0' BLS.

Int 1 3.5-5.0' BLS 0.0

Int 2 10.0-11.5' BLS 0.0

Int 3 30.0-31.5' BLS 0.0

No water encountered in this boring.

1150 Drillers decomming Augers. End calls

Mark Eschbar to discuss questions from NET. May not be providing enough soil to conduct MS/MSD analysis. Will provide two slivers for MS/MSD.

1200 Mark Hansen finds supply of Methanol to supplement our dwindling supply. Lee Perry will take Mark to obtain more Methanol.

Dan Oakley prepares to deposit. Has no final comments except with the non-sieved samples we run through the middle of the boring interval. Questions what happens if screening.

(60)

12/13/94

indicator contamination. Tell him we immediately ran a spec w/ sleeves to obtain sample. We are attempting to minimize the number of brass sleeves discarded (minimize waste) at the site.

Otherwise, we had no other concerns. Seemed to be favorable to the Operator.

1210 Vesby and Russ break for lunch

1235 Vesby, Russ, and Drillers return from quick lunch. Set up rig over B-002BH.

1245 BEGIN to drill at B-002BH. Will need information on Boring logs in the Field Notebook Binder.

1430 Complete B-002BH. Collected samples and PID Readings:

Int 1	0.5-2.0	0.0 PPM
Int 2	5.0-6.5	0.0 PPM
Int 3	29.0-30.5	0.0 PPM

11

12/13/94

Drillers moving to decon area to decon Augers. Moving to B-003BH location.

1500 Moving over B-003BH location. Will record all field data on Boring Log Forms in the Field Notebook Binder.

1620 Complete B-003BH. Collected samples and PID readings.

Int 1	1.0-2.5' BS	0.0 PPM
Int 2	5.0'-6.5' BS	0.0 PPM
Int 3	25.0'-26.5' BS	0.0 PPM

Saturated conditions encountered at 25.0' BS. Interval 3 sample was collected from this water interface area as specified in the work plan.

Emil goes to Bldg 44 to prepare samples for FED-EX shipment. Vesby begins to break down the decon/sample prep area. Russ observes drillers as they begin to grab the borings. Lee Perry departs site.

1650 FED-EX Arrives And picks up samples.

11

(63)

Earl E. Falt 4  
12/13/94

1710 Drillers completing grading the hole.  
Securing site for the evening.  
Deshy completes securing the site.  
Drives back to Bldg 44 to wait  
for Mark to finish GC analysis.  
Deshy and Earl obtain ATHA's from  
Soil samples.

1715 Russ arrives at Bldg 44 after  
drillers depart the station.

1745 Optech departs station.

Earl E. Falt 4  
12/13/94  
10.5hr

(64)

WEDNESDAY

DAY 10

12/14/94

0700 Arrive at the station. Go to Bldg 44 and  
prepare for daily activities.

0705 Drillers arrive at the site. Go to  
decon area to prepare for drilling.

0735 Earl, Deshy, and Russ go to AOC-B  
area to prepare for drilling. Drillers are  
decontaminating Augers to prepare for drilling.

0750 Safety Briefing  
Earl } Max }  
Russ } Optech }  
Deshy } Mike }  
Hart Env.

Discuss daily activities at AOC-B and  
AOC-A. Review hazards, emergency procedures  
and other such items.

WEATHER: Clouds, cold, turning mild today  
Temp: 28°. Temp today in low 40's.  
Sunny and slightly breezy.

0800 Set up sample prep/decon station.  
Drillers will set up at AOC-B  
to drill B-004BH.

11

12/14/94

0815 Begin to drill at B-004BH. Will compile info on Boring Log form in field notebook binders.

0930 Encountered water in B-004BH. Will collect a sample (Interval 3) at this interval and will not drill to bedrock.

1010 Complete Boring B-004BH. Samples collected from:

	PPM
Int 1 - 0.5-2.0' BCS	0.0 PPM
Int 2 - 10.0-11.5' BCS	2.7 PPM
Int 3 - 25.0-26.5' BCS	0.0 PPM

Water measured at 28.0' BCS. Did not drill to bedrock.

Drillers moving to Decon Area. Deshly and Earl prepare to move sample prep and decon station to AOC-A location.

1100 Drillers complete steam cleaning Augers. Moving to AOC-A location. Will begin at A-001BH location closest to Bldg.

12/14/94

1105 Begin to Drill at A-001BH location. Will record field data on Boring Log form in field notebook binders.

1200 Complete A-001BH boring. Samples collected at:

	PPM
Int 1 - 3.5-5.0' BCS	0.0 PPM
Int 2 - 10.0-11.5' BCS	0.0 PPM
Int 3 - 20.0-21.5' BCS	0.0 PPM

Water detected in bottom interval of sample and Bedrock was encountered at 23.0' BCS. Int 3 sample obtained from 20.0-21.5' BCS. Water drained in then bedrock. was not measured in the boring.

1205 Drillers shifting for lunch. Max begins to decon augers. Russ and Deshly w/ Mark break for lunch. Lee Perry at site. Will take lunch also.

1235 Return from lunch. Go to office to talk to Mark Escobar about LAB.

(67)

Zach Elshah  
12/14/94

Everything going well with the (AB) samples. Inform lab this will be the last sampling day.

1250

Return to the drill site (AOC-A). Drillers continue to decon augers. Will drill at A-002BH next.

1320

Complete deconning Augers. Moving rig to A-002BH.

1335

Begin to drill at A-002BH. Will maintain field data on Field Boring Log Form in field notebook binder.

1435

Complete drilling at A-002BH.

Sampler collected as follows: ppm

Int 1 - 1.0-2.5' BCS 0.0 ppm  
Int 2 - 5.0-6.5' BCS 0.0 ppm  
Int 3 - 20.0-21.5' BCS 0.0 ppm

Water encountered in the borehole at 19.0' BCS. Interval 3 sample obtained from 20.0-21.5' BCS. Bedrock was not encountered in this boring.

Zach Elshah  
12/14/94

(68)

1445 Drillers moving to decon lead Auger. Have enough clean augers to drill last boring. Go to GC room to call FEO-EX to Arrange a pick-up.

1500

Moving to Boring A-003BH location. Will maintain field data on Boring Log Form in field notebook binder.

1540

Completed sampling at A-003BH location. Sampling information is as follows:

Int 1 - 4.0-5.5' BCS 0.0 ppm  
Int 2 - 10.0-11.5' BCS 0.0 ppm  
Int 3 - 15.0-16.5' BCS 0.0 ppm

Groundwater was encountered at 16.0' BCS. Therefore, the Interval 3 sample was selected from the 15.0-16.5' BCS interval. Bedrock was not encountered at this boring location.

1545

Drillers pull of boring and prepare to grout all boring locations.

Desby breaks down down and sample prep area. Russ watches drillers.

1620 Earl prepares soil samples, chain-of-custody forms for FED-EX Shipment. Lee Perry departs site.

1625 Drillers grouting borings from the day.

1715 Drillers dewatering Augers. Desby completes clean-up at the AOC-A and moves to Bldg 44 to assist Mark Henson with packing equipment.

1720 Drillers depart site for the day. FED-EX ready. Mark Henson continues to analyze final GC samples.

1735 FED-EX arrives to pick up soil samples. Shipped priority overnight. Additional shipments include to HAZCO, MX-251 CEC

17

sent ~~prer~~ standard overnight, and 5 extra ice/chest w/ sample jars sent 2-day economy to NEI. Desby and Russ complete ATHA on soil samples collected this day and information was recorded in the Boring Log Forms.

1740 Desby and Russ depart the site. Earl and Mark Henson remain so Mark can finish Field GC Analysis.

1750 Mark Finished. All cleaned and secured for the night. Depart Bldg 41 for the night.

12/14/94 Earl E. [Signature]

12.51

711

12/15/94

DAY 11

THURSDAY

Earl Elkins

0700 Arrive at the Station.

0710

Safety meeting

Earl Deschey } Optech.  
Russ Mark

Remind each other to remain safe and in proper PPE while we pack up and complete work. Russ will give safety briefing to drillers when they arrive.

0720

Russ goes to find drillers. They will regrett all boring locations and clean and pick up equipment today.

Earl, Deschey and Mark pack up field GC room equipment and begin to load the van.

0800

Randy Lyman from Lyman Surveyors Arrives At the site. Earl and Randy go out to walk all the boring locations and piezometer locations to discuss what will

Earl Elkins

12/15/94

712

be required on the land survey.

0840

Randy Lyman departs the site. He expects field work to occur next week.

Earl has Deschey and Mark Henson go to AOC-A and B to conduct final site clean-up and re-shake All investigation points (Soil Gas Survey, Soil Boring, and Piezometer).

Earl goes to Bldg 290 for the outbrief w/ station personnel.

0900

Outbriefing w/ Station Personnel

Attendees:

Earl Parker - Optech

Lee Perry - AINER/CER

MAJ Wamble - Env. Coord. 131 FW

MAJ Parrish - J.B. Station Civil Engineer

TSGT Schumann - Env. Coordinator (J.B.)

Col Fred Bonney - Station Commander

Bill Campen } Real Property Office

Ellene Lemay } Jeff Brinkes

Earl E. Stahl  
12/15/94

Earl discussed goals and objectives of investigation. What was done. No Acrometers, 41 Soil Gas Findings, 14 Boring Locations. Analytical program.

Soil Gas Findings, Field GC and PID Findings. Discussed the Investigation Derived Waste drums (Total of 46 drums) Stored on concrete pad adjacent to Bldg 41.

Discuss when the Draft Report should be expected (Mid-Feb).

Lee Perry discusses some items with Mary Wamble. Round table discussions on related issues.

0950

Meeting ends.

Earl, Deshy, and Mark go to decan area where drillers are finished topping grout in all holes and are cleaning off equipment.

11

Earl E. Stahl  
12/15/94

1000 Earl sends Deshy and Mark to restake AOC-C and D. Earl gets with Driller and goes over all hours, samples collected, footages drilled and all aspects of drillers work. Agree on all items.

1035 Mark and Deshy return. Earl and Deshy prepare to depart Station. Russ and Mark will stay behind to insure drillers finish everyone.

1039 - Earl and Deshy go to AOC-C to check on the re-staked location.

1100 - Earl and Deshy depart Jefferson Barnesels ANG5.

1200 - Depart hotel for drive back to San Antonio.

Earl E. Stahl

12/15/94

17.0 hrs

(45)

FRIDAY

DAY 12

Earl Edwards

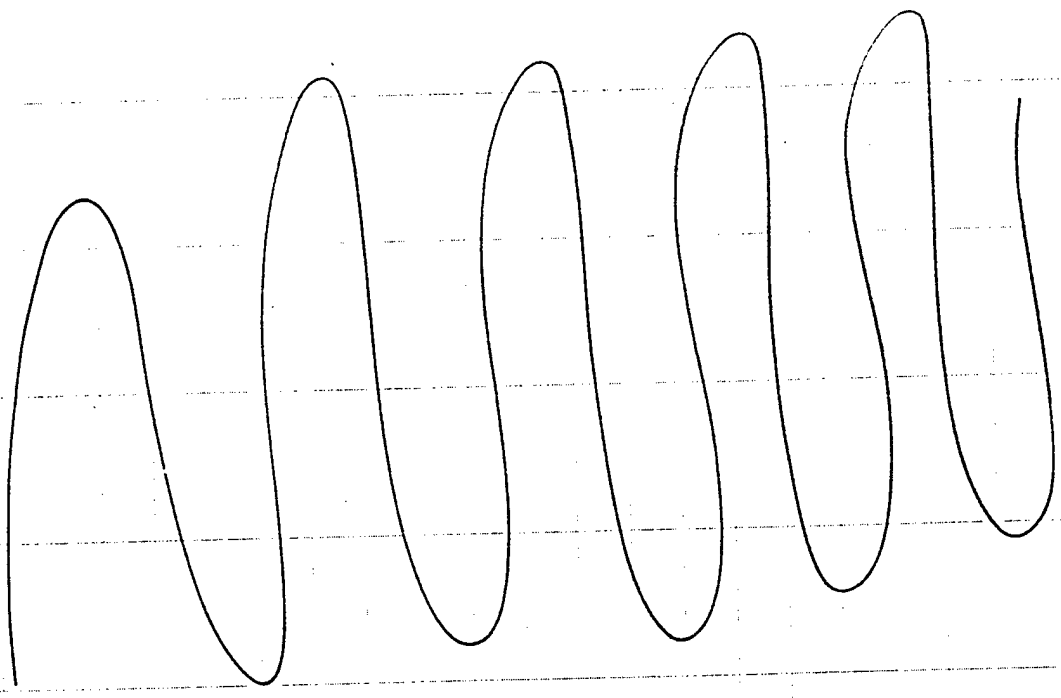
12/16/94

0001

Still Driving

0400

Arrive at Residence in San Antonio  
- END OF FIELD PROJECT -



Earl Edwards

(46)

Backpacks

END

OF

EFFECON

Guard

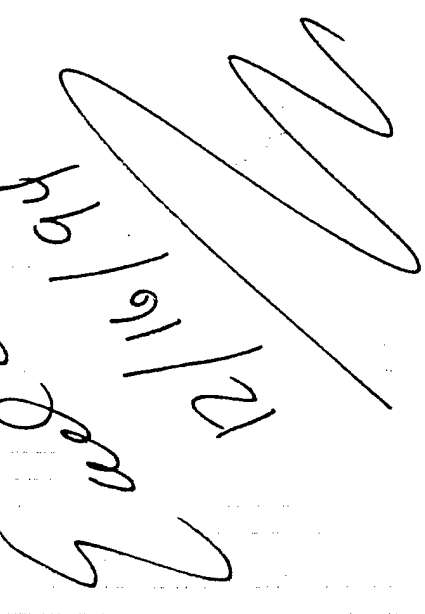
NATIONAL

INVESTIGATION

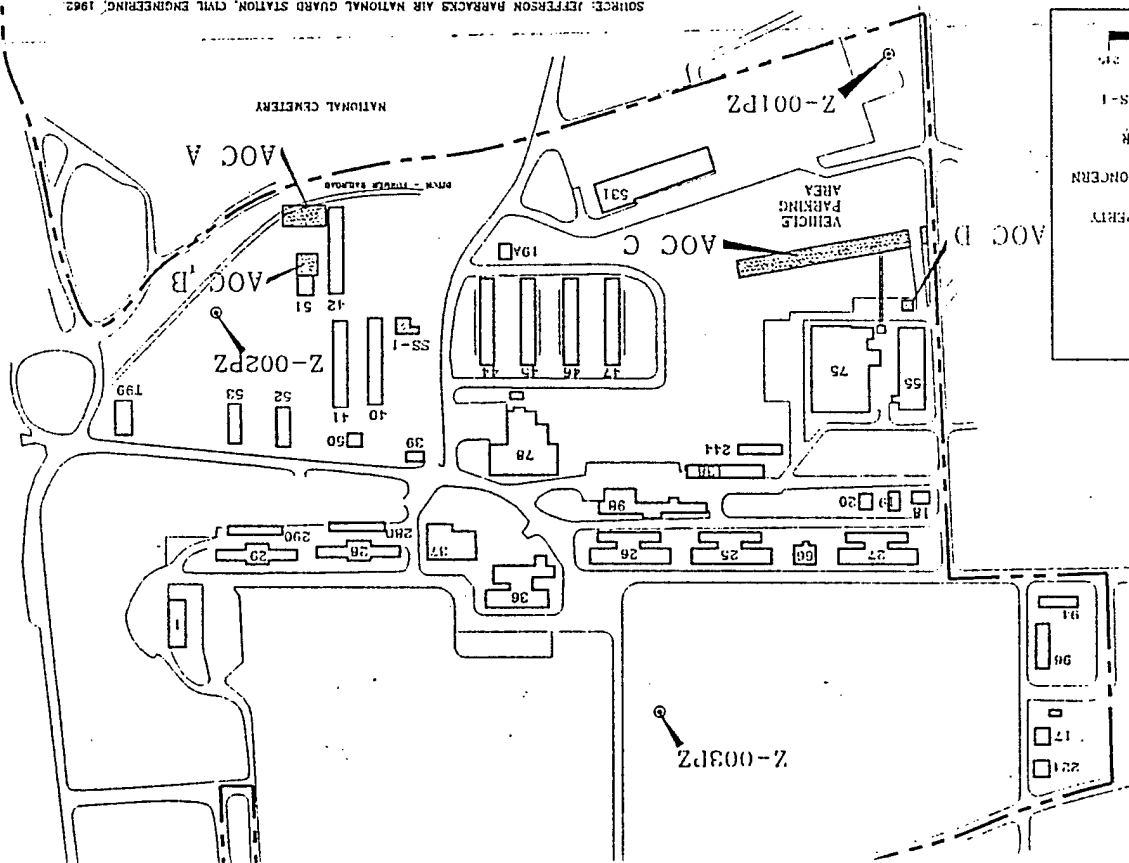
Field

12/16/94

12/16/94



MISSISSIPPI RIVER



O P T E C H

LOCATION OF PIEZOMETERS  
JEFFERSON BARRACKS ANG

5.1

Name **RUSSELL R. CASON**  
 Address **OPERATIONAL TECHNOLOGIES CORP**  
**4100 N.W. Loop W. Suite 230**  
**SAN ANTONIO, TEXAS 78229**  
 Phone **(210) 731-0000 EXT. 187**  
 Project **PA/SI 1315-105**  
**157TH AIR CONTROL GROUP**  
**JEFFERSON BARRACKS ANG'S**  
**ST. LOUIS MO Dec. 1994**  
**SSO LOG-BOOK**

State is to be used to identify the location of the site to which the data is being referred. The data is to be referred to the site to which the data is being referred.

THURS. Nov. 30, 1994

1400 AHEND PRE-MOB meeting w/  
Principal Team Optech. Discussed  
Objectives, Itinerary, & Health &  
SAFETY issues. R.C.

1446 END PRE-MOB meeting

NO Entries  
11-30-94  
R.C.

# CONTENTS

PAGE	REFERENCE	DATE
	OPTECH CREW onsite	
	Earl Parker Pm/SI	(E.P.)
	Russ Cason SSO	(R.C.)
	Destay Greenway Tech	(D.G.)
	Mark Henson GC OPER	(M.H.)
	Math Alexander Geophysics	(M.A.)

## Emergency #s

Hospital / Ambulance 9-911  
Base Reporting 3-8650  
Fire, Police, etc 9-911  
Steve Wilson Optech HSM (800) 677-8072  
Hospital General # ER (314) 525-1900  
Base FAX (314) 263-8729

John Morris Optech Pm - ANG

Parker (800) 498-4549

11-30-94

77

11/11/94 Dec 5 1994  
600 BREAKFAST meeting w/ Ernie Parker,  
Destiny Greenway, Matt Alexander, Russ  
Cason. Discuss Dec's work schedule.  
745 DEBARK FOR BASE.  
810 ARRIVE AT BASE - check in w/ Base  
Security & w/ Bill Johns in BLDG #290.  
815 FOOT TOUR (OPTech only) OF AOC's.  
850 In Brief w/ Maj. Tom Wamble, Maj  
Ceim Parris, MSGT. Malcolm Jones, TSgt Art Schue  
Discuss intended work schedule &  
HQS issues, ETC. For site incidents  
Notify Art Schueerman and/or  
MSGT. Malcolm Jones. Gave HQS Dec. too.  
940 END In-Brief, Take walking tour  
w/ Art Schueerman to BLDG #44 For GC  
SETUP. Tour AOC C & D, Discuss Rig Decon.  
130 UNLOAD Equipment From Van into GC  
Room. ORGANIZE EQUIPT. in GC Room  
150 Discuss EXACT Loc. OF AOC w/ Michelle  
Bowman AT OPTech HQ.  
120 MATH & Russ REINVESTIGATED AOC #D  
145 OPTech BREAKS For Lunch.  
155 MATH & R.C. RETURN TO MOTEL TO  
LOAD GEOphysical EQUIPT.

12 R.C.

1345 ARRIVE @ AOC #D to ENJOY  
MAGNETOMETER Sample GRID - G-PR  
GRID. 0,0 to 13,13 CARTESIAN GRID.  
1430 FINISH GRID & QA/QC Sample Points.  
1445 LAYOUT MGT & G-PR GRID @ AOC #A  
Sample Loc. 0,0 to 25,13 Cartesian GRID.  
1530 FINISH G-PR & MGT GRID AT AOC #A  
RETURN to GC Room to RIG UP MGT  
EQUIPMENT. Discuss HQS issue ABOUT G-PR/M  
1600 MOB to AOC #D TO RUN MGT  
SURVEY. MADE DETERMINATION THAT  
INSUFFICIENT time REMAINED BEFORE  
ARMY RESERVE LOCKED GATES FOR THE  
NIGHT. Decision TO RETURN TO AOC #A  
TO TEST MGT.  
1615 ARRIVE @ AOC #A, Prep. to RUN MGT  
Tuning Test.  
1645 RIG DOWN MGT. DPTech OFFSITE  
TO HOTEL.

12 R.C.

Tuesday Dec. 6, 1994

0613 WEATHER Lt. Rain & DRIZZLE, Temp. in mid to Hi 30's, zero VISIBILITY, No to U. Lt. wind.

0616 LOAD UP VEHICLES & ASSEMBLE PERSONNEL.  
= 0635 DEBARK FOR Mc'DONALD'S.

0645 BREAKFAST (OPTech) @ "Mc'DONALD'S".

0730 ARRIVE AT BASE.

= 0735 CALIBRATE EI PID (SER.# 48962-202) TO ISOBUTYLENE STANDARD OF 100ppm ISO-BUTYLENE (LOT # 412503-4B). 100% RE-TEST.

0740 E.P. LINE OUT WORK PLAN FOR THE DAY - SUP @ AOC'S B & A, GPR & MGT @ AOC<sup>#</sup> D & A.

0745 OPTech HAS MEET. (D.G. M.H., E.P., R.C., & M.H.) Discuss: + PPE + WEAR + ALL HAZARDS & ALL ITEMS ON HHS CHECKLIST (SEE BACK PAGE) EMPHASIZE VEHICULAR TRAFFIC HAZARD & INGESTION DANGERS "NO FOOD W/O WASHING!"

0755 MOB TO AOC<sup>#</sup> D (M.A., D.G., & R.C.)

0813 ARRIVE AT AOC<sup>#</sup> D (OPTech & DHL

CREW - Don Winston & SCOTT STATHOUSES)

GAVE HHS BRIEF TO DHL PERSONNEL

DISCUSSING STANDARD LIST AND

12 R.C.

Tuesday Dec. 6, 1994

EMPHASIZING INCIDENT REPORTING. DHL CREW SITTING HHS BRIEF ACKNOWLED. 0829 BEGIN MGT SURVEY -- M.A. OPERATOR, D.G. POLE HOLDER.

0945 END MGT DATA COLLECTION, RIG

DOWN MGT, RIG UP GPR.

1030 CALIBRATION RUNS ON GPR.

1100 BEGIN GPR SURVEY (D.G. TECH POLLING SLED, M.A. GPR OPERATOR R.C. SSO).

1150 R.C. & M.H. BREAK FOR LUNCH,

E.P. ASSUMES SSO FUNCTION FOR GEO-PHYSICAL SURVEY.

1240 R.C. & M.H. BACK FROM LUNCH, MEET IN G-C ROOM, DISCUSS GPR DATA W/ M.H.

1255 WEATHER: NO CHANGE.

1305 MOB TO AOC<sup>#</sup> A MGT & GPR

(M.H., R.C., D.G.) DISCUSS SATELITE

CONCERNS @ AOC<sup>#</sup> A + BE COME IN RANGE DITCH AREA, POOR FOOTING + WATERHOLE

FOR VEHICULAR TRAFFIC.

1315 TEST RUNS ON MGT.

1325 BEGIN MGT SURVEY

1537 END MGT SURVEY (325 POINTS)

1545 RIG-DOWN MGT EQUIPT.

12 R.C.

Tuesday Dec. 6, 1994

1550 Rig up GPR (R.C., M.A., D.G.).

1659 Rig Down GPR & Pack MET GEAR.

1711 Equipment Packed in van.

1715 OFF BASE.

1732 Arrive at Hotel

No Further Entries  
11-6-94 R.C.

in R.C.

WED Dec. 7, 1994

0600 Morning weather Forecast:

Temp in low 40s falling during the day to mid 30s, wind from west at 24-30 MPH, Humidity 82%. No rain at present - chance of lt rain & drizzle by afternoon, wind chill in low 30s to upper 20s.

0630 MOB to "Harpees" for breakfast meeting. Discuss work plan for day - Finish SUP & begin DRUG PZ#1.

0640 Debrief for Base.

0730 Optech on base

0738 Calibrate FI PID (ser #48962-2 to 100 ppm isobutylene standard (Lot 38849) 100% Retest - No drift.

0747 Check LEL calibration, function & test alarm levels. Cal @ factory to 45% pentane. Check alarm for % LEL to 10%, O<sub>2</sub> to 19.5%

0813 Hold safety meeting w/ Optech & H.F.D. Go over standard H&S list emphasizing wearing of basic PPE, eye & ear protection and incident report. Also brief Don Winston of DHL. Rem him about safety glasses.

Wed Dec. 7, 1994

0833 End safety meeting, go to PHL Trailer and give Hds briefing to Scott S. of DHL. No eating in Lab!

0845 Review utility line drawings at all AOC's to be drilled w/ E. propane.

0915 Hds visit to Dallas Decon area -

All HED personnel working safely w/ APP.

0915 Visit DHL sup site for Hds inspection - All in compliance. w/ Hds plan.

0930 Check out Deconer pump & tubes &

2. Perfum pump leak test - passed.

0950 MOB DRIG EQUIPT. P2-2 LOC.

1010 SET UP Excursion zone & CR2 AT P2-2 LOC.

1045 DRIG Rig lined up on P2-2 Loc. Test Rig Kill ✓

1047 AOC Hds Brief w/ OPTech (R.C.D.G., EP) & HED personnel MAX & Mike) Terry HART on site (HED Downer). Brief Terry on site Hds

1100 Take BKG-D PID Readings at upwind = NIR, Decon = NIR Sample Table = NIR Bone hole = NIR, Downwind = NIR.

1107 Being Dela Auer PID = NIR, Cuttings PID = 1.5 ppm, BO PID = NIR. (3' sample)

1115 Ret. 5' sample Auer PID = NIR BO

PID = NIR, Cuttings PID = NIR

⑧ Russ Loan 12-7-94

Wed. Dec. 7, 1994

1119 Ret. 10' sample Auer PID = NIR

Cuttings PID = NIR BO PID = NIR

1130 Ret 15' sample Auer PID = NIR

Cuttings PID = NIR BO PID = NIR

1140 Ret 20' sample Auer PID = NIR

Cuttings PID = NIR BO PID = NIR

1149 Ret. 25' sample Auer PID = NIR

Cuttings PID = NIR BO PID = NIR

1155 Refusal Limestone Breakout. @ 27'

Auer PID NIR Cuttings PID = NIR, BO

PID = NIR

1205 T.D. @ 32.5' Auer Depth = 30' OR C.

Wait on hole to make water. WLC

1207 = NIR.

1210 R.C. & M.H. To lunch E.P. AS SSO. Pickup paint stks & film.

1305 Return from lunch - Lable Drums #1 & 2 AS soil & bot on drum lev.

1310 No water indicated in P2-2. P004 & propane to move Rig to Loc. Z-001P2.

1320 E.P. & D.G. MOB To Loc. Z-001P2,

R.C. Remains to supervise DRIG. crew.

1340 DRIG moves off Loc to Decon.

Russ Loan 12-7-94 ⑨

WED. DEC. 7, 1994

1340 (CONT.) LEAD AUGER & SETUP GRADUATING EQUIPMENT. TEMPORARILY MOVE FULL SOIL

DRUM OVER OPEN HOLE & MARK W/ BARRICADE TYPE

1350 MOVE DECON WATER PUMP (SSS DECON) TO DRLG AUGER DECON STATION FOR BULK STORAGE

1405 FINISH RIG & AUGER DECON - MOB RIG - TO 2-001PZ LOC. HOLD SAFETY BELT <sup>OPTICAL</sup> HED.

1430 RIG UP TO DRLG - NOTIFY SGT. ANETTE OF ARMY GUARD OF PRESENCE ON SITE.

1435 BEGIN DRLG. HIT OBSTRUCTION @  $\approx 2'$  COLLECT SURFACE SAMPLE (Bo = NIR) & ATTEMPT TO DRILL THROUGH. AUGER PID = NIR. SMALL PIECES OF REINFORCED CONCRETE IN DRLG CUTTINGS. MOVE RIG TO LOC.  $\approx 18'$  AWAY & RETRY HOLE.

1450 DRLG NEW LOC. AUGER PID = NIR CUTTINGS PID = NIR. Bo PID = NIR (5' SAMPLE). BKGD PID = NIR FOR ALL QUADS.

1500 RET. 10' SAMPLE AUGER PID = NIR, CUTTINGS PID = NIR. Bo PID = NIR

1510 RET. 15' SAMPLE AUGER PID = NIR

CUTTINGS PID = NIR. Bo PID = NIR. OUTSIDE OF SSS WET BUT SAMPLE RELATIVELY

DRY TO MOIST. BKGD PID @ AUGER = NIR

1520 RET. 20' SAMPLE AUGER PID = NIR

(10) Dusenberry 12-7-94

WED DEC. 7, 1994

1520 (CONT.) CUTTINGS PID = NIR, Bo PID = NIR. TAKE WL READING @

1528 = 19.18' BELOW  $\approx$  GRAIN LEVEL

1540 TAKE WL = 19.03 BTOT  $\approx$  GRAIN LEVEL. R.E. BELOW TOP OF AUGER (BTOT)

1541 DRIFT TO TAIL BEDROCK. VERIFY

BEDROCK VIA AUGER REFUSAL @  $\approx 25'$  R.E.

20' BLS. LE2 = 0% O<sub>2</sub> = 20.5% R.E.

1551 PID HOLE PID = NIR. DRLG

WL = 17.28' BTOT.

1600 WL = 17.10' BTOT, HOLE PID = NIR

1603 RIG DOWN FOR NIGHT & SECURE DRLG

SITE. DRLG CREW TO DECON WALL CASING & SECURE

1630 OFF 2-001PZ LOC. RETURN TO

AUGER DECON PAD TO SUPERVISE DECON

OF WELL CASING & SCREEN. DECON PID = NIR

1645 STOW INSTRUMENTS FOR NIGHT IN

GC ROOMING.

1700 OPT. OPTICAL HED OFF POST.

NO PORTHOLE ENTRIES

NO PORTHOLE ENTRIES  
12-7-94 R.E.

Dusenberry 12-7-94 (11)

THUR. DEC. 8, 1994

0600 WEATHER CLOUDY, NO RAIN, TEMP 36°, WIND 13 MPH FROM SE, WIND CHILL IN LOW 30s, 81% HUMIDITY. LT RAIN POSSIBLE LATER TODAY.

0630 MEET DOWNSTAIRS w/ OTECH CREW TO MOB TO BREAKFAST.

0730 ARRIVE @ BASE.

0740 CALIBRATE FI PID (See #48962-282) to 100ppm isobutylene STANAG (Lot #38849) 100% Reproducibility on RETEST, NO DRIFT.

0750 CHECK CALIBRATION OF LEL, CHECK LEL ALARM (10%) & O<sub>2</sub> (19.5%).

0755 GIVE MARK HENSON SAFETY MEETING on STANAG LIST. Emphasizing CANE w/ INJECTION NEEDLES & INJECTION/DEMAND PATHWAYS. GC PID = NIR.

0800 HAS MEETING w/ OTECH (E.P., R.C., DO. AND HED CREW (MAX & MINE). Discuss STANO. Topics Emphasized: Cold weather EFFECTS, No ingestion in work areas & Hygiene.

0815 PASS TO PZ-1 Loc FOR WL MEASUREMENT PID @ WELL HEAD = NIR. <sup>R.C.</sup> ~~Butter~~ BKGD PID AT SITE UPWIND = NIR, DOWNWIND = NIR.

WL = 10.21 BTOA. Hole PID END = NIR. 0820 RETURN TO GC ROOM & PER DRUG EQUIP.

(12)

THUR. 12-8-94

THUR DEC 8, 1994

0820 W/D CLIENT FOR DECISION.

0825 RECALIBRATE LEL to 25% Hexane (Lot #39506) 100% RETEST. O<sub>2</sub> = 20.5%.

0900 R.C. & P.G. TO PZ-1 Loc. NOTIFY DRILLERS OF Plan - REMOVE AVERAS, LEAR PZ-1 open pending DECISION.

0920 SET UP EXCLUSION & CRZ ZONE 2-003PZ

0945 TAKE BKGD PIDS UPWIND = NIR DOWNWIND FROM RIG = NIR AT DECON STATION = NIR Sample TAGR = NIR.

1010 HOLD AGC SAFETY MEETING on ESCAPE ROUTES & HAZARDS SUCH AS TRAFFIC & TRIPHAZ over equipment. Wind FROM N.E.

1015 BEGIN DRLT 2-003PZ. RET. 1.5' Sample Avera PID = NIR, CUTINS PID = NIR = NIR, B<sub>0</sub> PID = NIR.

1020 COLLECT 5' SAMPLE Avera PID = NIR CUTINS PID = NIR B<sub>0</sub> PID = NIR

1030 COLLECT 10' SAMPLE Avera PID = NIR

CUTINS PID = NIR B<sub>0</sub> PID = NIR, SLIGHT

APPARENT PROPANE-LIKE odor AT Borehole Reported ~~By~~ <sup>R.C.</sup> BY DRILLER & CONFIRMED

BY DRILLER. NO PID READING, LEL & O<sub>2</sub> meter = NIR. Smell persisted

(13)

THUR 12-8-94

Thur Dec. 8, 1994

1030 (cont.) Only for about 1 min. Continue DRILL.

1031 Auger PID = NIR. Upwind Bldg = NIR

1038<sup>00</sup> Get 15' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

1045 WL Measurement: No water encountered

T.D. = 16.20' BLS. Rig on Standby

UNTIL E.P. Talks to ANGRC PM.

1100 WL = NIR. Break Down Decon

& Sampling Stations. Rig Down DRLT Equip.

1125 Mob Rig to Decon ~~P2-2~~ Rig

Upgrading Equip.

1135 G-Rout 2-003P2 to Surface w/ Tee mix

Pipe. Approx 2 1/2 - 3 Bars Partials to

1/2 Drum of water. ~ 9 lbs of Gel All

Mixed w/ Jetting Tool.

1145 Mob to Loc P2-1 to GROUT. Hole PID = NIR

1215 Finish Grouting P2-1. Decon Augers.

1245 Mob Rig to P2-2 Loc. Prepare to Tee mix

GROUT P2-2 to Surface. Borehole PID = NIR

1330 Finish Grouting P2-2 Load up

Augers & G-Rout Equip - Prepare to Mob

to Decon Area.

1340 Mob to Auger Decon Area - Decon

AUGERS. HAS CAUTION REGARDING SPLASH FALTE.

1430 Finish Auger Decon.

(14)

Gene Lee 12-8-94

Thur. Dec. 8, 1994

1435 Drillers OFF Post to Buy  
Cement.

1440 Make Run to Buy Misc. Supplies

1515 Return from Supply Run - Decon

Soil Sampling Equip. HED OFF POST

1615 Mob Optech to AOC's C&D for

Measurements. Inspect Grouters P2-2 -

Some Packups of Grout on Grass - will allow

to Dry then Remove.

1645 Optech OFF Post.

1700 Gas up car & Buy Babies

1750 M.H. notifies me of potential

Exposure of D.G. to methanol while

deconning soil sampling equip.

1755 Visit D.G. - Symptoms are S/I.

Nausea, No Headache. D.G. Prayers

to lie Down for while, will monitor

Prayers in about 1 hr.

1920 Visit D.G. - Symptoms Abated

According to D.G. Looks & feels better

(Actioner Min that is symptoms

Return to Notify me on E.P. &

will Mobil to Hospital for check out.

No Further Activities  
12-8-94 JEC.

Gene Lee 12-8-94 (15)

Friday Dec. 9, 1994

0535 Weather: Lt Rain, Temp Low 40s,  
V. Lt. Breeze 100% Humidity. Wind will UP 30;  
0600 DeBank to HARBERS FOR MORNING  
meeting.

0700 OPTech on Post, H.E.P. (mix & mix)  
on Post. Hold 485 Brief on STD. LIST.

0705 Calibrate EI PID to 100ppm IsoButane  
(Lot #38849) 100% Reproducibility on Retest,  
NO DRIFT.

0710 Cal LEL - Check to 25% Hexane  
(Lot #39506) 100% Reproducibility on recheck.

0740 MWS to AOC D BKG PID & All Quants = NIR  
0830 ALARX Hensons acting site safety  
officer at this time.

0840 Discussed with Distry to use  
proper lift technique when  
lifting heavy waste bins.  
Two-man lift, bend at the  
knees w/ back straight.

0845 P.C. BACK on SITE AS SSO Ret. 10'  
Sample Area PID = NIR, Cuttings  
PID = NIR, BO PID = NIR

0950 Ret. 15' Sample Area PID = NIR,  
Cuttings PID = NIR, BO PID = NIR

(16) *Tom-Lan* 12-9-94

Friday Dec. 9, 1994

1005 Ret 20' Sample Area PID = NIR  
Cuttings PID = NIR BO PID = NIR

1015 Ret 25' Sample Area PID = NIR  
Cuttings PID = NIR BO PID = NIR

1020 DRL to ConfIRM Bedrock Area PID  
= NIR Cuttings PID = NIR BO PID = NIR

1030 POOH w/ AUGERS Clean out Hole Hole  
PID = NIR

1110 MWS Pig to Loc D-002 B4. Decom  
AUGERS AT Area Decom Station.

1120 Check in w/ John Morris for Safety  
UPDATE.

1145 Drillers Back @ AOC Give Pre-Shift  
HAS Brief on Potential for Encountering  
Contamination Based on SUP Results.

1148 Begin DRILL D-002 B4 Area PID = NIR  
BKG D @ All Quantities = NIR

1150 Cuttings PID = 2.5 ppm NIR in Borehole  
ing Space (BS) LEL = NIR  $G^2 = 20.5\%$

1200 Hit GAVEL @ Surface down to 8 1/2'

1203 Ret to 1/2 L.R.C. 9' Sample Area  
PID = 0.6 ppm Cuttings PID = 1.2 ppm

BS PID = NIR, BO PID = 9 ppm

UPWIND PID = NIR Downwind PID = NIR

*Tom-Lan* 12-9-94 (17)

Friday Dec. 9, 1994

1210 WEATHER DROP IN Temp To Low 30's

increase in wind chill. DRY, overcast.

Advise Crew of weather change.

1212 RET. 15' Sample Auger PID = 1.8 ppm

Cuttings PID = 3.1 ppm, BS PID = 1 ppm

Bo PID = 10.5 Caution DRUG Crew to

Keep "HEAD" out of barrel due to

Drumming vapors in cutting s. C

1230 RET 20' Sample Auger PID = 0.5

Cuttings PID = 3.7 BS PID = 0.6 Bo

PID = 6.7 ppm

1245 RET 22' Sample Auger PID = 2.6 ppm

Cuttings PID = 3.5 BS PID = NIR

Bo PID = 9.2 ppm

1250 Pool w/ Augers BS PID = NIR

1305 Auger PID = 1.3 BS PID = NIR

1310 OPTech Rig from Decon Sample Station

Drillers OFF Post For Lunch.

1340 OPTech OFF AOC For Lunch.

1440 OPTech Back From lunch

1445 Recalibrate PID, Load Fresh Batteries

in LEL, Recheck LEL Calibration.

1515 Drillers on Loc AOC #C. Give HOS

Brief @ Site on suspected contamination

(18)

Russell Coan 12-9-94

Friday Dec. 9, 1994

1515 Conting And Hazards of uneven working - Sun Face

1525 RET. Surface to 2' sample Auger PID =

NIR, Cuttings PID = NIR Bo PID = NIR

over BKTD of NIR @ All Quads &

For Decon Sample Exam. Area.

1532 RET 5' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = — NOT

Taken due to Auger Refusal. Move

C-001 BH Loc. To ~ 5' South Along

Ditch. Open Hole PID = NIR.

1545 Prepare to move Rig. X E.P (Sm)

Decides to await hole due to Time

Factor & Collect Surface Sediment Samples

1601 Drillers To Decon Augers

1605<sup>5' Pic</sup> Collect Surface Sediment Sample

C-001 SED (2 Jars) Analytes: VOCs,

SVOCs, TPH, & metals P.G. & R.C.

Collecting. PID = NIL.

1613 Collect C-002 SED. For same Analytes

As C-001 SED (2 Jars) PID = 2.0 ppm

1620 Collect C-003 SED AS per other

PID = 2.3 ppm

1645 Visit Decon Area & Secure Drums.

1720 Secure EQUIPT. Room.

Russell Coan 12-9-94 (19)

Sunday Dec. 11, 1994

- 1230 DEPART FOR JACK-IN-THE-BOX FOR LUNCH  
1245 ARRIVE @ "JACKS"  
1315 ARRIVE @ POST, CHECK DRUMS  
FOR FASTENING & HAZARD TAGS.  
1340 CLEAN GC ROOM, CLEAN & CALIBRATE  
PID, ORGANIZE EQUIPMENT.  
1440 E.P., D.G., & R.C. OFF POST, M.H.  
Remains to RUN GC SAMPLE.  
1457 ARRIVE @ HOTEL.

NO FURTHER ENTRIES  
12-11-94  
R.C.

(20)

*[Signature]* 12-11-94

Monday Dec 12, 1994

- 0540 WEATHER: MID 20's to low 30's, V.L.T.  
Breeze, wind chill in UP TEENS, NO  
CHANCE OF RAIN, OVERCAST.  
0640 ARRIVE @ BASE HED. ON BASE.  
0645 CALIBRATE EI PID #48962-282 to  
100ppm isobutylene (LOT 38849) 100% RETEST,  
NO DRIFT.  
0652 CALIBRATE LEL/O<sub>2</sub> meter to 25%  
Hexane (LOT #39506) O<sub>2</sub> = 20.7%.  
0700 DISCUSS DAYS OPERATIONS w/ E.P.:  
DRUG 5 BONNIES @ AOC #C. NO BARRICADE TAP  
NEEDED DUE TO LOW PERSONNEL - THREATEN  
POTENTIAL. GIVE MH (GC OP) & BS BRIEF.  
0725 MOB OPTech & FIELD TO AOC #C  
0730 HAS meet. (E.P., R.C., D.G. MAY & MINE).  
DISCUSS STRUCTURE LIST EMPHASIZING  
CHANCE AROUND FLY SPOTS, WEARING OF  
GLOVES & INJECTION OF FOODS/DRINKS.  
0740 BKGD PIDS UPWIND = NIR, AT  
BODENHOLE = NIR, DECON & SAMPLE AREA  
= NIR.  
0755 RET 5' SAMPLE OF C-001B4, AUMER  
PID = NIR, COTHING PID = NIR,  
130 PID = N/A: NO RECOVERY APPARENT

(21)

Monday "Dec. 12, 1994

0540 ~~Weather mid 20s to low 30s, W.L.T.~~ R.C. 12-12-94

Breeze, wind chill in up teens to chance of rain.

0755 Cont. B.C. ROCK. NOISE ABOVE & COLLECT 3' to 5' INTERVAL ABOVE B.C. ROCK.

0812 RET. 3-5' SAMPLE; HUMAN PIED = AIR CUTTING PID = NIR BO PENDING; NO RECOVERY - NOISE RISE 2' & TRY AGAIN. LEL = 0% O<sub>2</sub> = 21%

0825 ATTEMPT 5-5' SAMPLE ABOVE HUMAN PIED CUTTING PID = 1.4 ppm. ABANDON LOC.

0830 DRILL DRILL TO RECONSTRUCT TO THINER AUTO HAMMER.

0831 ANGR - ICE READY & HUMAN CUTTING ON SITE.

0845 OPTech, HAMMER & ARRIVE TO GC ROOM FOR TOOL & WARM UP.

0900 R.C. HALL & ANGR TOOK HUMAN AREA.

0920 RIB UPON LOC C-002 BH BREAK PID: NIR @ BONEHOLE; ~ 0.2 UPWARD, NIR DOWNWARD.

0930 RET. SURFACE SAMPLE ABOVE PID = NIR, BC PID = 2.3 OVER BKN OF LIGNITE.

0945 RET. 5' SAMPLE ABOVE PID = NIR

*[Signature]*

(22)

Mon. Dec. 12, 1994

0945 CONT. CUTTING PID = 1.3 ppm, BC PID = 2/1000.

1001 RET 10' SAMPLE CUTTING PID = NIR, HUMAN PIED = NIR, BC PID = 2/1.5 ppm ~ 1.2 to 1.5 ppm DRIFT IN PIED

1016 DRILL TO 11.5' - RUSH SAMPLE. ABOVE PID = NIR, CUTTING PID = NIR, BC PID = 3.2/1.5 ppm; O<sub>2</sub> ALARMED LEL due to PIED LINE.

1030 DRILL TO 15' RET. SAMPLE R.C. 12-12-94

Above REFUSAL @ 13.5'. 11003 RIB TO LOC. C-002 BH. R.C. 12-12-94

1035 DRILLERS HUMAN PIEDS.

1036 DRILLER STUCK IN 1700 C-002 BH

1050 REPLACE BATH IN LEL/O<sub>2</sub> AREA TO DECON HUMAN.

1115 RUN SOIL SAMPLES TO GC ROOM FOR ANALYSES.

1120 VISIT DECON AREA FOR HDS CHECK - ALL WORKERS "SAFE".

1145 BACK @ LOC C-003 BH.

1150 BACK PID: DECON TABLE; SAMPLE PRESS. - NIR. INSTRUMENT REPAIR - O<sub>2</sub> PPM - EARLIER DRIFT DUE TO TEMPERATURE

*[Signature]*

(23)

Mon Dec. 12 1994

1158 DRUG Loc C-003BH.

1200 RET. Surface sample, Auer PID = NIR

Cuttings PID = 2.1ppm Bo PID = NIR

1205 RET 5' Sample Auer PID = NIR,

Cuttings PID = 2.5ppm, Bo PID = 0.6

1225 RET 10' Sample Auer PID = 0.5,

Cuttings PID = 1.5ppm Bo PID = N/A.

(No 10' sample due to Refusal @ 75')

1250 Discuss site potentials w/ Dm onakoly  
(Hanzumar)

1300 Break for lunch E.P. Remains @ site.

1310, R.C., J.M.M. offsite, Angac & Howard

OFFSITE

1332 Optech back on Post. Relieve E.P.

AT Loc C-003BH.

1335 Weather: Upper 30s to low 40s pty cloudy,

w/ sun peeking out. V. L. Breeze from S to

SE. BKG-D PID @ Decon/ Samp = NIR, Upwind = NIR

1355 Recalibrate PID to 100ppm isobutylene

(Lot 267952-011393) 100% acetone, MADUSET.

1400 collect surface sample, Bo PID = 1.6ppm

1405 RET 5' Sample Auer PID = NIR,

Cuttings PID = NIR Bo PID = 1.4ppm

1415 Post w/ plug, Auer PID = NIR.

(24)

Carroll 12-12-94

Monday, Dec 12, 1994  
R.C. 12-12-94

1421 Move Rig to Loc C-005BH  
Auer Decon Area.

1430 Visit Auer Decon Area.  
R.C. 12-12-94

1445 Rig up on Loc C-005BH

Upwind PID = NIR, Breeze PID = NIR,

Decon & Sample Area = NIR.

1447 Begin DRUG-C-005BH Auer PID = NIR

1503 RET 5' sample Auer PID = NIR, R.C. 12-12-94

Cuttings PID = NIR Bo PID = NIR 1.0ppm

1510 Auer Binding @ 8.5', possible entry

into a solution fracture. Stop drilling &

Round SSS. Auer PID = NIR, Cuttings

PID = 1ppm, Bo PID = N/A.

1515 Standby Auer PID = 2.1ppm.

1530 Attempt to RET sample from solution

fracture - failed. Pool w/ Auer. Standby.

Auer PID = 1.2ppm

1533 Prep. to GRout C-005BH.

1542 Finish Grout C-005BH to surface

1546 Prep to GRout C-004BH

1552 Finish Grout C-004BH

1554 Prep Grout C-003BH.

1559 Finish Grout C-003BH

1605 Prep Grout C-002BH

(25)

12-12-94

Carroll

Mon. Dec 12, 1994

- 1600 Finish Geotile C-002131-  
1610 Top off to Reaton C-001321.  
1615 Break Down Decon & sample  
Tables, Secure Rooms.  
1630 Visit Auer Decon site, Stow  
PHE/Refuse in Decon  
1645 Visit to BIP 44 Rio samples for  
Shipping.  
1710 PID Samples w/ E.P. Review DATA.  
1725 OPTech off Post

No Further Entries  
12-12-94

(26) Russell Lee 12-12-94

Tues. Dec 13, 1994

0540 Weather 26°, wind chill in teens,  
LT. wind, frost & ice on ground in  
patches. No rain forecast, warming  
into 40s later today.

0605 DeBark to "Hampers"

0615 Arrive @ Hampers

0645 DeBark for Post

0650 OPTech on Post (E.P. R.C., M.H. & P.G.)

0700 CAL PID # 48962-282 to loop on isobut-  
ylene (Lot # 262452-011393) 100% retest,  
no drift.

0710 CAL. LEL/O<sub>2</sub> meter # 1267 ± 0.25%  
Hexane (Lot 39506) O<sub>2</sub> = 20.9%

0720 Give M.H. (G.C. OP) HDS Brief - (are  
ful w/ Heggies & investigation initiation.

0723 Check in w/ Mike crew & Bruce  
Decon Area, Green warning up Equipt.

0740 Give HDS Brief @ Stock (OPTech:

F. Parker, M. Greenway, R. Mason) (HED: Max &  
Mike) (Hazzwonder D. Gaskely.

0150 Tracy Hazzt w/ HED onsite

0800 Lee Perry w/ ANGEC on Post.

0810 Take BKGD PID: Decon = NIKK, Sample  
Table = NIKK, upwind = NIKK, Decon

Russell Lee 12-13-94 (27)

Wed, Dec 13, 1994

0810 (cont.) Hazmat Storage Area = NIR  
@ Rib Loc. = NIR, Downwind PID = NIR  
0826 Begin Drill Loc B-00134 Cuthins PID  
= 2.8 ppm Area PID = N/A.  
0829 Ret. Surface Sample B0 PID = NIR  
0835 Ret. Additional sample from Surface  
interval. Cuthins PID = NIR B0 PID = NIR  
11055 Drill to 10', Cuthins PID = 0.9 ppm  
Area PID = NIR, Terry Hart offsite  
10900 Ret 10' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = NIR  
0912 Ret 15' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = NIR  
0935 Ret 20' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = NIR  
0955 Ret. 25' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = 0.7 ppm  
1000 Cauton Drill crew & site meteorologist  
Recommend Trip & Close quarters Hazards,  
1003 Push Spun To 26' Area PID = NIR,  
Cuthins PID = NIR, B0 PID = NIR.  
1016 Drillers Report that ice is on surface of  
the Drill Rows - will use caution when handling  
1030 Drill Row Slips due to ice - Use more  
caution!

(28) Ron Can 12-13-94

Tues Dec 13, 1994

1031 Ret. 30' sample Area PID = NIR  
Cuthins PID = NIR, B0 PID = NIR  
1040 Hit Refusal @ 31' Area PID = NIR  
1055 Dean Avers,  
1105 Discuss loc B-002134 w/ EARL.  
1115 Drill Bit Lining upon loc B-002134  
1135 Dan Oakley (Hazardous) off site. Commenting  
that OPTech was doing an excellent job.  
1145 OPTech (D.O. & P.C.) off site for lunch  
E.P. Acting-SSO.  
1220 R.C. & D.G. Break Furniture out  
1240 Begin Drill B-002134. Cuthins PID  
= NIR. Collect Surface Sample,  
B0 PID = NIR  
1255 Ret. 5' sample Area PID = NIR  
Cuthins PID = NIR, B0 PID = NIR  
1303 Ret 10' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = 0.2 ppm  
1310 Ret 15' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = NIR  
1322 Ret 20' sample Area PID = NIR  
Cuthins PID = NIR B0 PID = NIR  
1330 Weather: Lowies, Pilly (buy U. LT S-SE  
Breeze.

Ron Can 12-13-94 (29)

Tuesday, Dec, 13, 1994

1340 RET 25' Sample Over PID = NIR  
Cuttings PID = NIR, Bo PID = NIR  
Drill has loose Drill - Rod Down Hole - 60  
Fishing for Tool.

1343 ANGRC Rep Loc Jerry Back on Post w/  
M.H. & Method.

1350 Fish Pond Resume Ret. at 25'  
Sample, Bo PID = NIR

1405 RET 29' Sample Over PID = NIR

1410 Cuttings PID = NIR Bo PID = NIR

1412 Pond w/ Auerers, Over PID = NIR

1420 Decon Auerers,

1500 Begin Delt Loc. C-003134 Cuttings  
PID = NIR

1505 RET Surface Sample, Over PID =

NIR Cuttings PID = NIR Bo PID = NIR

1515 RET 5' Sample, Over PID = NIR

Cuttings PID = NIR, Bo PID = NIR

1530 RET 10' Sample, Over PID = NIR,

Cuttings PID = NIR, Bo PID = NIR

1540 RET 15' Sample Over PID = NIR

Cuttings PID = NIR Bo PID = NIR

1545 ANGRC OFF Post

1546 Weather Temp Down To Low 30's.

(30)

David Lee 12-13-94

Tues Dec 13, 1994

1550 RET 20' Sample Auer PID = NIR

Cuttings PID = NIR Bo PID = NIR

1559 RET 25' Sample Auer PID = NIR

Cuttings PID = NIR Bo PID = NIR

SIT. Wet SSS.

1613 RET 29' Sample Auer PID = NIR

Cuttings PID = NIR, Bo PID = NIR

Sample not collected any deeper than 29'

Due to presence of water in Auerers

1620 Take WL = 228.0' BLS., Auer

PID = NIR.

1623 Prepare To Govert C-001341, C-002134,

& C-003134.

1638 Finish Govert - C-002134.

1659 Finish Govert - C-002134.

1715 Finish Govert - C-001341, Clean up

work area.

1730 HED. OFF Post.

1735 Site & LC Room Cleanup

1810 D/Tech OFF Post (K.C. D.G., E.P.)

M.H. remains to Run last of G-C

Samples.

1830 Arrive @ Hotel

NO further entries

12-13-94

David Lee

(31)

Wed, Dec 14, 1994

0545 Weather: PTN Cloudy, 25°F, S+  
wind from S-SE wind chill in upper  
teens. Forecast to warm into upper 30's.  
0600 OPTech MOB. To "Haddes" for  
Breakfast meeting.

0645 OPTech (R.C., D.G., E.P., & M.H.) on Post,  
1 0655 Cal. PID # 48962-282 to 100 ppm  
isobutylene (Lot # 267952-011393).

1 0700 Check LEL/O<sub>2</sub> Cal. 100% Retest to  
25% Hexane (Lot # 39506) O<sub>2</sub> = 20.9%.

1 0715 Set up Down & Sample strings,  
HED Down Hubs.

0830 Finish Decon, hold HOS Hare  
OPTech (E.P., R.C., D.G., M.H.) & HED  
(Maximize).

0832 Begin DR16-loc. C-001BH, C-Hins  
PID = NIR, BKLD PID upwind = NIR,  
@ Borehole = NIR, Decon & sample table =  
NIR, & Downwind = NIR.

0835 Ret Surface Sample Bo PID = 1.8 ppm

0841 Ret 5' Sample Juvon PID = NIR

C-Hins PID = NIR Bo PID = 2.0 ppm

0851 Ret 10' Sample Juvon PID = NIR

C-Hins PID = NIR Bo PID = NIR

(32)

Down

12-14-94

Wed, Dec 14, 1994

0906 Ret 15' Sample, Juvon PID  
= NIR C-Hins PID = NIR Bo PID = 0.2  
0910 Refuel Rig w/ Diesel.

0920 Ret 20' Sample Juvon PID = NIR  
C-Hins PID = NIR Bo PID = 0.3

0930 Ret 25' Sample Juvon PID = NIR

C-Hins PID = NIR Bo PID = 1.0  
0945 WL in Bore = 21.0' BLS.

0950 Inspect previous Borehole for GWT  
Fall Back & Drums. - All Drums  
Removed from PZ Loc. & AOC's

C-J-D. PZ-1 has fall back of several  
ft.; C-2 = 2'; D-1 = 2.2'; D-2 = 2'.

1030 Back @ AOC B - Drills still Decon,

1045 Line up Rig on Loc. A-001BH

C-Hins Chemt Optech about close

Quantities Derivation 12.6-

1050 Begin DR16 A-001BH BKLD PID =

UPWIND, NIR; Borehole, NIR; Decon & sample  
PID = NIR; Downwind NIR.

1052 Ret. Surface Sample C-Hins PID =  
NIR, Bo PID = NIR

1059 Ret. 10' Sample Juvon PID = NIR

C-Hins PID = NIR Bo PID = NIR

(33)

Down

12-14-94

Wed. Dec. 14, 1994

1112 Ret 15' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

1125 Ret. 20' Sample Auger PID = NIR

Cuttings PID = NIR, Bo PID = NIR

WL Standing in Augers = 20.1' BLS.

1130 WL Standing in Augers = 20.1' BLS.

1140 Ret 25' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = N/A —

Auger refusal @ 23.5' No Sample

Collected, WL did not indicate

water in Bottom of Hole. <sup>R.C.</sup> ~~Positivity~~

1145 Pour w/ Augers. Auger PID = NIR

1155 R.C. L.D.G. Off Post for lunch.

1230 R.C. & D.G. Back from lunch. Drilled

@ Decon.

1330 Rig up on Loc A-002BH, Bkt

PID = NIR @ Basehole, NIR Downwind

NIR Uprig, NIR @ Decon sample Ties

1332 Ret 2' Sample, Cuttings PID = NIR

Bo PID = NIR

1337 Ret 5' Sample, Auger PID = NIR

Cuttings PID = NIR, Bo PID = NIR

1350 Ret 10' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

(34)

D. J. L. L.

12-14-94

Wed Dec. 14, 1994

1401 Ret 15' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

1410 Ret 20' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

1420 Pour w/ Augers, Auger PID = NIR.

1435 Decon lead Augers, Discuss wear

Safety sniell when Deconing w/

Power sprayer.

1447 Line up on Loc A-003BH, &

Begin DRILL <sup>5' R.C.</sup> Sample, Cuttings

PID = NIR, Bo PID = NIR

1508 Ret 10' Sample, Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

1516 Ret 15' Sample Auger PID = NIR

Cuttings PID = NIR Bo PID = NIR

SSS is wet.

1530 Pour w/ Augers

1537 Prepare Grout.

1545 Grout all Boreholes in Bore B & H

To Surface w/ Tremmie Pipe.

1620 Finish Grouting, Bore in Cleanup.

1640 HEP. Off Post.

1720 Grout (R.C. & D.G.) Off Post.

1740 Arrive House @ Hotel.

D. J. L. L.

12-14-94

(35)

Thursday Dec 15, 1944

0545 weather! PFTY Cloudy 40° F.  
GIT CUMULUS OF AIR LATER TODAY.

0600 DEBARK FOR WARDERS

0645 OPTech (K.C. F.P., D.G., J.M.H.) ON POST  
0700 HOLD HOS REEF W/ OPTech - EMPHASIS

THAT EVEN THOUGH ONLY CLEANUP IS D-13

TODAY THAT PROPER SAFETY GEAR

& PRECAUTIONS ARE TO BE MAINTAINED.

0715 SUPERVISE DRILLERS TIGHTEN WELLS

& CLEAN UP. CHECK DOWN COUNT &

1-43/10/17/17.

0835 FINISH TOPPING. PDA GROUND HOW

HOLE IN DRAINAGE DITCH.  $\approx$  30 GAL OF

GROUT.

0850 BEGIN AVER DOWN.

1015 FINISH AVER DOWN, BEGIN SITE

CLEANUP

1039 OPTech (F.P. & D.G.) OFFPOST

1100 DRILLERS FINISH CLEAN UP HIED OFFPOST

1115 CHECKOUT W/ SGT. SWENSON -

LEAVE XEROX OF DOWN & IDW LIST.

1130 OPTech OFFPOST.

1500 CATCH FLINT BRICKS SAN ANTONIO

0800 ARRIVE @ SAN ANTONIO.

(36)

Less Loan

12-15-44

(37)

# MEMORANDUM FOR CONVERSIONS

NOV 01 1999 1000 HLY 1011 H

## LENGTH

unit	to	unit
inches	to	centimeters
feet	to	meters
yards	to	meters
miles	to	kilometers
nautical miles	to	kilometers
feet	to	meters
yards	to	meters
miles	to	kilometers
nautical miles	to	kilometers

## WEIGHT

unit	to	unit
ounces	to	grams
pounds	to	kilograms
tons	to	metric tons
short tons	to	metric tons

## VOLUME

unit	to	unit
cubic feet	to	cubic meters
gallons	to	liters
barrels	to	liters
acres	to	hectares
square feet	to	square meters
square miles	to	square kilometers

## TEMPERATURE

F to C:  $(F - 32) \times \frac{5}{9}$   
C to F:  $(C \times \frac{9}{5}) + 32$

## Pressure

unit	to	unit
psi	to	atmospheres
inches of mercury	to	millimeters of mercury
feet of water	to	meters of water
bars	to	atmospheres
millibars	to	hectopascals

## Energy

unit	to	unit
BTU	to	kilocalories
foot-pounds	to	joules
kilowatt-hours	to	kilocalories
megawatt-hours	to	kilocalories

## Power

unit	to	unit
horsepower	to	kilowatts
kilowatts	to	horsepower
megawatts	to	kilowatts
gigawatts	to	kilowatts

## Area

unit	to	unit
square feet	to	square meters
square miles	to	square kilometers
acres	to	hectares
hectares	to	acres

ALABAMA POWER CORPORATION  
SHELBY COUNTY, ALABAMA

Destry Greenway  
Environmental Technician  
Operational Technologies  
4100 N.W. Loop 410 Ste 230  
San Antonio, TX 78229  
210-731-0000

Jefferson Barracks ANG  
Holiday Inn - 4234 Butler Hill Road  
St. Louis, MO 63129  
314-894-0700

ALABAMA POWER CORPORATION  
SHELBY COUNTY, ALABAMA

# CONTENTS

PAGE REFERENCE DATE

①

Wednesday November 30, 1994

14:00 Meeting of crew including myself, Russ Cason, Earl Parker, Mark Henson and Matt Alexander.

15:00 Meeting ended. Meeting covered itinerary for trip.

No further entries DSS

Dusty Greenway

②

Monday December 5, 1994

06:30 Breakfast meeting  
 08:00 Leave motel  
 08:15 Arrive at base  
 08:25 Inspect AOC-B  
 08:30 Inspect AOC-A  
 09:00 Briefing with Major Keith Parrish, Major Tom Wamble, Master sergeant Malcolm Jones, Tech sergeant Art Schuermann.  
 09:40 Meeting ended  
 10:00 Began unloading equipment in G room.  
 10:45 Equipment unloaded. Sorted equipment. Helped Mark fill VOA vials.  
 11:45 Break for lunch  
 12:45 Lunch ended  
 13:10 AOC-B. Set-up soil gas survey points and soil boring locations  
 14:20 AOC-A. Set-up soil gas survey points and soil boring locations  
 15:35 AOC-C. Set-up soil gas survey points and soil boring locations

Dusty Dreaming

③

Monday December 5, 1994  
 Load up and prepare to leave  
 Depart site  
 Arrive back at hotel

16:45  
 16:50  
 17:05

No further entries D 922

Dusty Dreaming

④

Tuesday December 6, 1994

06:30 Leave motel, eat breakfast  
 07:30 Arrive at site  
 07:45 Safety meeting with crew given by Russ Cason.  
 08:00 Safety meeting over. Prepare to help Matt with Geo Survey.  
 08:30 Began magnetometer at ADC-D  
 09:45 Magnetometer completed  
 10:00 Set up GPR  
 10:30 Began calibration runs  
 11:00 Began GPR  
 12:15 GPR completed. Returned to GC room to down load data and to eat.  
 13:05 Head to ADC-A for magnetometer and GPR.  
 13:20 Began magnetometer at ADC-A  
 15:37 Magnetometer completed  
 16:00 Began calibration runs and read mag  
 17:00 GPR complete. Begin rigging down.  
 17:20 Leave site  
 17:30 Arrive at motel

No further entries Peter  
 Doty Drummy

⑤

Wednesday December 7, 1994

06:30 Leave motel, eat breakfast  
 07:30 Arrive at site. Earl and I staked out SGS points for ADC-A  
 08:20 Safety meeting with drillers  
 08:36 Safety meeting concluded  
 08:43 Matt and I left to bring him to motel for flight home.  
 09:10 Left to return to base.  
 09:26 Arrived at base. Loaded up van to prepare for decon.  
 10:10 Arrive at site for Z-002PZ  
 10:30 Began setting up decon and sample stations  
 11:00 Begin decon Z-002PZ  
 12:30 Decon complete Z-002PZ  
 Break down decon station, load up equipment, eat.  
 Check water level of Z-002PZ.  
 Completely dry! ~~Drop~~  
 Drive to location of Earl made phone call on the way to location of Z-001PZ.

Doty Drummy

⑥

Wednesday December 7, 1994

13:50 Arrive at location of 2-001PZ.  
 14:30 Began to set up decon.  
 14:50 Began drilling, hit obstruction.  
 15:00 Began decon  
 16:00 Began drilling a few feet away.  
 17:00 Began decon 2-001PZ  
 17:20 Decon complete 2-001PZ. Begin breaking down decon station, loading equip prepare to leave site  
 Leave site  
 Arrive at motel

No further entries D.E.E.

Dusty Drummy

⑦

Thursday December 8, 1994

06:40 Leave motel, eat breakfast-  
 07:30 Arrive at base  
 07:40 Observed calibration of PID.  
 08:07 Safety briefing  
 08:20 Checked water level at 2-001PZ.  
 10:21 ft below top of auger.  
 08:30 Returned to GC room for Earl to confer with Lee Perry.  
 09:00 Returned to 2-001PZ to notify drillers of plan.  
 09:15 Arrive at site to determine location of 2-003PZ. Set up decon.  
 10:15 Begin decon at 2-003PZ  
 11:00 Decon complete at 2-003PZ  
 11:50 Leave site to get sampling equip. at hotel. Pick-up lunch.  
 12:40 Return to site  
 13:10 Begin setting up decon for cleaning sleeves and end caps.  
 13:30 Began decon for sleeves  
 16:00 Decon complete. Break down decon and load equip.

Dusty Drummy

⑧

Thursday December 8, 1994

16:15 Go to AOC and measure locations of stakes.  
16:30 Leave site, refuel vehicles.  
17:00 Arrive at motel.

No further entries D 222

Dusty Drury

⑨

Friday December 9, 1994

06:10 Leave motel, eat breakfast  
07:10 Arrive at site. Prepare to load up brass sleeves and end caps for borings.  
07:15 Calibrated PID  
07:45 Safety briefing with drillers  
08:00 Arrive at AOC-D. Begin setting up decon.  
08:50 Begin Decon D-001BH  
10:35 Decon complete D-001BH  
12:00 Begin Decon D-002BH  
13:30 Decon complete D-002BH  
Break down decon  
13:55 Lunch break  
14:50 Recalibrated PID  
15:20 Arrived at AOC-C Began setting up decon.  
15:30 Begin decon C-001BH interval 1  
16:00 Decon complete C-001BH interval 1  
16:05 C-001SED sample collected  
16:13 C-002SED sample collected  
16:20 C-003SED sample collected  
17:15 Recalibrated PID

Dusty Drury

(10)

Friday December 10, 1994  
Took PID readings at VOA

17:20

vials

17:50

Leave site

18:00

Arrive at motel

No further entries D22

Dusty Greenway

(11)

Sunday December 11, 1994

13:20 Arrive at site

13:25 Arrive at decon area. Check to make sure all drums are sealed.

13:30 Check all other AOC's and piezometer locations.

13:50 Arrive back at GC room. Straighten and organize room.

14:50 Leave site D22

No further entries D22

Dusty Greenway

FD 12

Monday December 12, 1994

06:10 Leave motel  
11:06:45 Arrive at site  
11:07:00 Get ice  
07:25 Set up decon station at AOC  
07:30 Safety briefing  
08:10 Begin decon C-001BH interm.  
08:30 Decon complete C-001BH interm.  
09:45 Begin decon C-002 BH  
10:55 Decon complete C-002 BH  
12:05 Begin decon C-003 BH  
12:45 Decon complete C-003 BH  
12:46 Discussion with Dan of Hazrap  
about points of <sup>decon</sup> to consider  
when we are working.  
13:00 Break for lunch  
13:30 Return from lunch. Prepare for  
decon C-004 BH.  
13:45 Drillers return  
14:00 Begin decon C-004 BH  
14:40 Decon complete C-004 BH  
14:55 Begin decon C-005 BH  
16:00 Decon complete C-005 BH. Breakdown  
decon station and load van.

Dusty Draney

13

Monday December 12, 1994  
Dropped Earl and the samples  
off at GC room.  
11:30 Dumped decon water into main  
tub  
11:40 Fed Ex arrived  
11:55 Leave site  
12:40 Arrive at motel

No further entries D22

Dusty Draney

(41)

Tuesday December 13, 1994

06:05 Leave motel  
 07:00 Arrive at site. Get ice  
 07:30 Set up decon between AOC-A and AOC-B.  
 07:35 Safety briefing with drillers and Dan with Hazrap  
 07:45 Safety briefing concluded.  
 08:30 Begin decon B-001BH  
 10:55 Decon complete B-001BH  
 11:55 Break for lunch  
 12:30 Return from lunch  
 12:50 Begin decon B-002BH  
 14:40 Decon complete B-002BH  
 15:00 Begin decon B-003BH  
 16:55 Decon complete B-003BH. Break down decon station and load van.  
 17:30 PID VOA vials  
 17:45 Fill VOA vials with 10ml DI H<sub>2</sub>O  
 18:10 Leave site  
 18:35 Arrive at motel

No further entries D222

Dusty Drury

(15)

Wednesday December 14, 1994

06:05 Leave motel  
 06:50 Arrive at site  
 07:00 Get ice  
 07:15 Set up decon between AOC-A and AOC-B.  
 08:30 Safety briefing with drillers  
 08:40 Begin decon B-004BH  
 10:05 Decon complete B-004BH  
 10:25 Measured boring locations XOC-A  
 10:50 Begin decon A-001BH  
 11:55 Decon complete A-001BH  
 12:00 Break for lunch  
 12:35 Return from lunch  
 13:35 Begin decon A-002BH  
 14:30 Decon complete A-002BH  
 15:00 Begin decon A-003BH  
 16:45 Decon complete, Take 3 samples from decon drums.  
 16:10 Break down decon and load truck.  
 17:20 Leave site  
 17:35 Arrive at motel

No further entries D222

Dusty Drury

①⑥

Thursday December 15, 1994

106:05

Leave motel

106:55

Arrive at site, Safety briefing.

(Clean out GC room and load van.)

108:20

Re-stake all points at all AOC's.

110:40

Leave site

111:00

Arrive at motel, pack up, and check out.

112:00

Leave motel, head for San Antonio.

123:59

~~THU~~ 3 1/2 hours from S.A.

No further entries DGG

Dusty Greeney

①⑦

Friday December 16, 1994

03:30 Arrive at apartment in S.A.

No further entries DGG

Dusty Greeney

11/30/94 1400 hrs.

Carl Parker held a pre-deployment meeting at Optech, w/ myself, Earl, Mark H., Denny, Russ, and Steve in attendance (also Mark E.). Items discussed included supplies + equipment being rounded up now, travel up there this weekend, daily planned activities, etc. Geophysical survey activities are to be completed on Monday + Tuesday. EP also wants to be sure others learn how to use this equipment while we are there.

We discussed what contaminants will be found in field GC + PID and what Draeger tubes should be available (benzene, TCE). Field GC is looking @ BTEX, DCE, TCE, + PCE. All workers will provide Run Cacan with copies of certification papers. Coded @ 1455 hrs.

Mark  
Alphard

(2)

12/5/94 0810 Arrive @ JBarracks  
and CE Bldg 290. They are  
all in meeting, so we are  
walking around Station &  
see AOCs @ 0825.

- AOC A map is not very  
accurate w/ ditch and  
tree. Geo grid will alter  
some info.

0850 - Toured around Station but  
could not get to where

AOCs C & D are -- forced  
in vehicle parking. Back @ CE

0900 Mfg. in CE w/  
Mr. Wamble (from Lambert) and Mj.

Parish and Sgt. Sherman.  
- Earl Parker introducing Optech team  
and going over schedule.

IDW drama location? @ 5146

Location for GC? perhaps B44

To get to AOCs C & D, talk to  
Don Annett in BLDG 55

with ArNG.

Utility clearance & digging permits --  
already put in by Sgt. Sherman.

Run Cason giving SSO briefing.

(3)

Person for notification of any  
incidents is Sgt. Sherman.  
Diller's Decon -- do @ warehouse  
IM from Lambert asked for  
copies of our OSHA certifications  
Bldg 511 -- can use telephone here  
Bldg 55 -- go to see when @ CVD  
Emergency Telephone Use -- dial 9-911  
CE office 38650.

Finished meeting 0930

1000 Look @ room in Bldg 44  
for GC setup.

1020 At Army ground over  
Looking for AOC-C and D.

Very hard to see exactly  
where AOC D is. Map is not  
highly accurate and no  
hole in ground is visible.

1040 Unload materials into

room in Bldg 44. Call to  
office to see if they can tell  
us where it is.

Sherman gave me some details  
upon which we should be  
able to find it.

(4)

I also called the hotel to see if the geophysical equipment had arrived -- geo.

1115 REX MLA go to CE & then go back out to AOC-D. Still did not see pipe -- will just do GPR & DIAG.

1145 Go to lunch

1300 Go to hotel to pick up geophysical equipment.

1330 Put MAG in storeroom in B44. Make up a tape w/ 5' intervals for setting up geophysics grid.

1345 Lay out grid @ AOC D

Do the grid @ 30' x 30' with east edge up against HAZ MAT pad & south edge against fence.

Use spacing 5' on GPR & 2.5 feet on MAG.

Blue X for GPR & yellow • for MAG

1430 finished grid @ AOC D -- we have 2 x 7 GPR grid and

(5)

a 13 pt x 13 pt MAG grid (169 pts).

1450 Set up GPR grid @ B42 @ AOC A. The southeast corner of grid will go off into ditch -- MAG ok but GPR won't work as hill is too steep.

- In West half grid do GPR @ ~~10'~~ 5' spacing, then back of to 10'.

- Keep MAG spacing @ 2.5' throughout grid.

- Change GPR to all @ 5' spacing (won't take too long!!) but will not be able to

gather data @ ditch --- beyond 50' on horizontal traverses 0 and 1

Finished grid layout at 1530 hrs. 1545 Put together magnetometer in the B44 room. Then went up to AOC-D @ 1600 hrs.

They will only allow us to stay 45 min, so we will not do MAG here today.

(6)

Back to AOC-A @ 1610 hrs, will do just test readings w/ MAG. I did not bring tennis shoes, so the guns will have to be done tomorrow.

1645 Tests w/ MAG are OK -- signal strength is OK and readings are ~54-55k. The readings decay go down to 50K up by 862.  
1700 Leave Stadium for hotel  
— 12/5/94 .... 8 hrs.

(7)

12/6/94 0730 hrs. Arrive

@ B44 to get equipment.

0740 Safety meeting in B44.

For Destroyer Greenway will help me with Magnetometer.

Safety Mtg -- by EPA RC go over -- schedule

weather

chemicals, eye wash Station

soil vapor equipment

safety signals

w/ MLA, MH, and DG

End @ 0800 .... out to site

0815 Setup to do MAG @ AOC-D

MAG started @ 0830 to 0945

13 lines, w/ 13 pts/line good

readings w/ alot of olives noise

along S + E sides w/ fence

1000 Reading up GPR @ AOC-D

7 lines in each direction

Settings are

- 300 MHz R = 168 ns

LRF = 100 ms HPF = 20 ms

L/n = 100, Scaus/sec = 16

Start @ 1100 hrs.

Matt 12/5/94

Alford

(8)

Had some trouble w/ signal  
drift on vertical traverses  
0, 1, 3 --- I decreased gain  
but it didn't fix problem.  
Then I fixed paper on  
platen & it seemed to work OK

1130 move on to horizontal lines  
Some problem again on H&V ....  
I adjusted gain & paper position  
again --- it all appears to be a  
fine tuning of both of these

1150 done with GPR at AOC-D  
1215 looked @ data and ran  
several more traces at

intimate spacing. There  
is one area of highly disturbed,  
noisy but no clear identity  
1230 Back to B44 and ate  
lunch and. down loaded MAG  
data into computer (MAGLOC  
1245 Ate lunch.

1300 Back to work @ AOC-A.

1325 Started MAG @ AOC-A  
325 pto

(9)

finished @ 1335 hrs. now  
set up for GPR 1545  
Start GPR runs @ 1615 hrs.  
Finish @ 1700 hrs.  
Pack up equip.  
Leave Station @ 1715

Mad  
Alexander  
12/6/94

10

12/7/94 Arrive on site @ 0730.  
Print out data from SURFER.....  
First had trouble because no  
response from printer. Then  
remembered, had to take out  
serial port for 11 port as  
work correctly. Also, printer  
works OK for GC.  
0830 - done printing for SURFER  
data



PROJECT NAME: JEFFERSON BARRETS ANG'S

PROJECT LOCATION: St. Louis, MO

PROJECT NO.: 1315-105

LOGGER: Earl Parker

DRILLING CO.: Hart Environmental

DRILLER: Mark Tinnin

BORING/WELL NO.: P2-2

RIG: CME Model 45C

WEATHER: PC to MC, cold and breezy 11-40's

DATE DRILLED: 12/7/94

SURFACE ELEVATION: \_\_\_\_\_

DRILLING METHOD: HSA

SAMPLING METHOD: Split spoon

DEPTH DRILLED: 29.5

DEPTH TO WATER: None Encountered

DATE MEASURED: N/A

TOC ELEVATION: N/A

PAGE \_\_\_\_\_ OF \_\_\_\_\_

SAMPLE DEPTH	BLOW COUNTS	% REC	LAB SAMPLE INTERVAL	FIELD SCREENING			ASTM Soil Classification Code	DEPTH		DESCRIPTION
				PID (ppm)	ATIA (ppm)	BC Sample		FROM	TO	
0.0 - 1.0	-	-	-			1	GW			Gravel and base material.
3.5 - 5.0	2 3 5	50	-	0.0	-		GM	3.5	5.0	Light to dark brown silt and silt loam w/ small gravel, slightly cohesive, slightly moist.
5.0 - 6.5	4 3 4	40	-	0.0	-		ML	5.0	6.5	Brown sandy silt, very fine sand and silt, cohesive and slightly moist.
10.0 - 12.0	2 2 6	80	-	0.0	-	2	ML	10.0	12.0	Brown sand and silty sand, slightly cohesive, slightly moist.
15.0 - 17.0	2 3 4	100	-	0.0	-		ML	15.0	17.0	Gray, silt and sandy silt, very fine sand, moist, cohesive, little clay.
20 - 22.0	2 4 3	100	-	0.0	-		ML	20	22	Light Brown silt and very fine sand, slightly cohesive, very moist.
25 - 27	1 2 1	100	-	0.0	-	3	GM	25	27	Brown silt and fine sand w/ calcite and limestone frags at bottom. Wet.
27.5	-	-	-							HSA refusal at limestone surface.
27.5 - 29.5	1 4 19	10	-	0.0	-		GM	27.5	29.5	Silt and sand mud with limestone fragments and blocks.
-							Bedrock			At Bedrock. Wet, but no apparent water. Table.
-										
-										
-										
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-										

**OPTECH**  
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NOTES: Drilled to 29.5' when bedrock was encountered. No evidence of water over the bedrock surface. Bedrock confirmed by HSA and SPT refusal.







DRIVER: Max Turner

**SURFACE ELEVATION:**

TOX. ELEVATION: U/A

PAGE	OF
1	1

[illegible]

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NOTES: Groundwater encountered at 16' BLS. Totally saturated material. Last interval sample obtained from 150-16.5' Along groundwater in k.s. face.

PROJECT NAME: JEFFERSON BRICKS (R.S.)

PROJECT LOCATION: St. Louis Mo

PROJECT NO.: 1315-105

LOGGER: Eyal Parker

DRILLING CO.: HART & HORNEMAN

DRILLER: Max Tinnin

FILE NO. 8

RIG: ME-45

WEATHER: Cold, Clear Temp 30°

DATE DRILLED: 12/13/44

**SURFACE ELEVATION:**

DRILLING METHOD: 145A

SAMPLING METHOD: (a) Salt - 5005

DEPTH DRILLED: 31.5' BLS

DEPTH TO WATER:

DATE MEASURED: NA

TOC ELEVATION: NA

PAGE OF

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING			ASTM Soil Classification Codes	DEPTH		DESCRIPTION
						PID (ppm)	ATHA (ppm)	FROM		TO		
2.0 - 3.5	5	4	4	30	-	0.0	-		GW	2.0	3.5	Dark brown, loose, sandy-gravelly fill material. Some brown sandy silt. Mostly gravel fill. Loose. Dry
3.5 - 5.0	4	6	7	70	Int 1	0.0	13.9		<del>GW</del>	3.5	5.0	Dark brown fill material. Gravelly, loose, clay. Some brown sandy silt. VF Sand and silt. Very slightly moist
10.0 - 11.5	7	22	23	70	Int 2	0.0	0.0		ML	10.0	11.5	Brown fine sandy silt w/ some clay. Slightly plastic & cohesive, slightly moist.
15.0 - 16.5	2	2	4	100	-	0.3	0.0		ML	15.0	16.5	brown VF Sandy silt w/ little clay. Slightly plastic & cohesive and slightly moist.
24 - 25.5	4	15	8	100	-	0.7	0.0		ML	24.0	25.5	brown VF Sandy silt w/ little clay. Cohesive, slightly plastic, moist.
26.0 - 27.5	2	3	2	100	-	0.0	0.0		ML	26.0	27.5	gray. VF sandy with little clay, cohesion, slightly plastic, moist.
30.0 - 31.5	7	14	-	80	Int 3	0.0	0.0		ML-CL	30.0	31.0	brown, VF Sandy silt w/ some clay, plastic, cohesion, moist. Bottom w/ calcite, insol, tan w/ limestone fragments.
31.5	-	-	-	-	-	-	-	-	Bedrock	-	-	Bedrock Encountered by SPT @ HSA.

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NOTES: Bedrock encountered at 31.5' BLS by SPT and HSA retested. Thin calcareous weathered zone above bedrock. Limestone fragments of minute size found in sample above bedrock surface. No fossils encountered.



DRILLING METHOD: HSA

BORING/WELL NO: 8-60524

RIG: CME-45

WEATHER: Clear, Cold Temp: 32°

DATE DRILLED: 12/13/94

**SURFACE ELEVATION:**

**PAGE** **OF**

[illegible]

# OPTECH

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NOTES: Drilled down to 30' BCS and observed water in the back. Water level ~~student~~ was measured at 28.3' BCS prior to abandonment. Interval 25.0-26.5 was saturated and water selected as the Int 3 sample above the static water level.

PROJECT NAME: JEFFERSON BARNECK APTS  
PROJECT LOCATION: ST. LOUIS MO  
PROJECT NO.: 1315-105  
LOGGER: Earl Parker  
DRILLING CO.: HART ENVIRONMENTAL  
DRILLER: Max Tinnin

BORING/AWELL NO.: B-004 BH  
RIG: CME-45  
WEATHER: Cool, Clear, Temp: 28°  
DATE DRILLED: 12/14/94  
SURFACE ELEVATION:

DRILLING METHOD: HSA  
SAMPLING METHOD: Cal. Split Spoon  
DEPTH DRILLED: 31.5  
DEPTH TO WATER: 28.0' BGS  
DATE MEASURED: 12/14/94  
TOC ELEVATION: N/A

PAGE \_\_\_\_\_ OF \_\_\_\_\_

[illegible]

# OPTECH

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NOTES: Did not drill to bedrock. Water encountered in the 25'-30' BLS interval and measured at 28.6' BLS prior to benching abandonment. Clay at the 30' BLS interval. 75.0-76.5' BLS interval selected for Interval 3 sample.

PROJECT NAME: Jeffers  
Baracks

PROJECT LOCATION: St. Louis, MO

PROJECT NO.: 1315-105

LOXGER: Earl Parker

DRILLING CO.: Hat Environment

DRIVER: Alex Timm

BORING/WELL NO.: C-001 BH

RIG: CME-45

WEATHER: Cold, Cloudy. Temp: 28

DATE DRILLED: 12/12/94

**SURFACE ELEVATION:**

DRILLING METHOD:  
I-HSA

SAMPLING METHOD: California split

DEPTH DRILLED: 5.0' BLS ~~6.5'~~

DEPTH TO WATER:

DATE MEASURED: 12/2/77

**TGC ELEVATION:** *N/A*

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[illegible]

# OPTECH

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NOTES: C-001 BH lusher not accessible to the drill rig. Moved to the slope of the ditch where large limestone/cement blocks were encountered from surface to 2.0' BLS. When drilling, another interval of rock was encountered at 5.0' BLS where HSA could not penetrate.



DRILLER: Max Tunwin

**SURFACE ELEVATION:**

TOC ELEVATION: *N/A*

**PAGE** **OF**

SAMPLE DEPTH	BLOW COUNTS		% REC	LAB SAMPLE INTERVAL	FIELD SCREENING			ASTM Soil Classification Codes	DEPTH		DESCRIPTION  COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
					PID (ppm)	ATHA (ppm)			FROM	TO	
0.5 - 2.0	2	3	5	100	I <sub>1</sub> /1	1.3	150	ML	0.5	2.0	2.0 to 6.0 in sandy silt, w/ very fine sand and silt with little clay. Slightly plastic, cohesion, moist.
5.0 - 6.5	2	3	5	100	I <sub>1</sub> /2	0.8	23.7	ML-CL	5.0	6.5	Brown sandy silt w/ some clay. Slightly plastic, moist becoming more clay rich.
7.5' BLS	-	-	-	-	-	-	-	Bedrock	-	-	HSA refusal on bedrock (?) surface. Cannot proceed.

NOTES: HSA retest at 7.5' BLS. Turned augers to confirm HSA retest. Can only obtain two Interval samples from this location.

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DRILLER: Max Tinning

**SURFACE ELEVATION:**

TOC ELEVATION: W/A

PAGE	OF
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[illegible]

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NOTES: Bedrock encountered at 6.5' BLS. Weathered Bedrock interface in Interval 2 sample. Sandly weathered material. Sand and silt. No cobbles encountered. Bedrock determined by HSA refusal and SPT counts.

PAGE \_\_\_\_\_ OF \_\_\_\_\_

NOTES: Bedrock encountered at 60' B.S. Drilled into weathered bedrock for 2.0'.  
Then attempted a split spoon sample but it would not penetrate. SPT refusal.

4100 N.W. Loop 410, Suite 230  
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DRILLER: Max Tinnin

**SURFACE ELEVATION:**

**SURFACE ELEVATION:**

TOC ELEVATION: N/A

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[illegible]

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NOTES: Gravel fill to 9.0' BLS. Some gravel contained black staining. Odor. PID readings did not exceed 9.2 at 21.5' sample. Was 4.3 at bottom of spoon. Bedrock was encountered at 27.8' BLS. Confirmed by SPT refusal.

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# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12/05/94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGUS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russell Cason</u>	<u>SITE SAFETY MONITOR</u>
	<u>MATT ALEXANDER</u>	<u>GEOPHYSICAL SURVEY OPERATOR</u>
	<u>DESTRY GREENWAY / MARK HENSON</u>	<u>FIELD TECHNICIANS</u>

Work Completed: Arrived At Station. Conducted inbriefing with Station  
Personnel. Inbriefing with MAJ WAMBLE - Env. Coordinator, MAJ Parrish - Station Civil Engineer,  
TSGT Scheurmann - Station Environmental Coordinator, MSGT Jones - Industrial Hygiene (H&S for  
Station. Staked out All locations for Soil Gas Survey Boring, Piezometer  
Locations. Set up geophysical survey grid.

- Achieved All DAY 1 objectives -

Deviations from the Work Plan: NONE

Site Visitors:

NONE

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12 / 06 / 94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGCS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russell Cason</u>	<u>Site Safety Monitor</u>
	<u>Matt Alexander</u>	<u>Geophysical Survey Operator</u>
	<u>Dorothy Greenway / Mark Henson</u>	<u>Field Technicians</u>

Work Completed: Completed geophysical survey at the two AOC's. Preliminary  
Assessment of data indicates no subsurface obstructions at the AOC's.  
Matt Alexander will analyze data tonight and provide report tomorrow. Completed  
31 of 41 Soil Gas Survey locations at 3 AOC's. Findings on  
Attached map. Tomorrow, we will finish Soil Gas Survey and drill  
first piezometer to determine groundwater / bedrock interface.  
- No problems encountered, And on schedule -

Deviations from the Work Plan: NONE

Site Visitors:

NONE

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12 / 07 / 94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGSS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>Site Safety Monitor</u>
	<u>Destry Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC Operator</u>

Work Completed: Completed Soil Vapor Survey at AOC-D. No BTEX detected.

Trace of TPH at only one location. Drilled at Z-002PZ to bedrock confirmed  
by HSA refusal and drill cuttings. No water encountered. Drilled at Z-001PZ  
to bedrock (same confirmation) and encountered perched water table above  
bedrock. Bedrock encountered at Z-002PZ at 28.0' BLS. (No water)  
At Z-001PZ bedrock encountered at 20.0' BLS (Water level at 17.1' BLS  
but had not stabilized). Will call in morning to discuss situation.

Deviations from the Work Plan: NONE

Site Visitors:

NONE

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12/08/94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGCS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>Site Safety Officer</u>
	<u>Destiny Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC Operator</u>

Work Completed: Confirmed no water was present at PZ-2 location. After 1  
night it was still dry. Water level from PZ-1 indicated approx 10 feet of water  
over the bedrock. After discussion w/ ANGRC, moved PZ-3 location to east  
of Bldg 75. Drilled and encountered bedrock at 15' BLS. No water encountered.  
Since groundwater was found in only 1 PZ location, no piezometers were  
installed. Grouted all 3 piezometer locations. Prepared to begin soil borings  
tomorrow. Will obtain soil borings from AOC-C and AOC-D.

Deviations from the Work Plan: Work plan modified due to lack of a  
continuous Aquifer at the Station. Since groundwater was not encountered above  
the bedrock at 2 PZ locations, and with ANGRC concurrence, no piezometers  
were installed. All piezometer locations were grouted.

Site Visitors:

NONE

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12 / 09 / 94

Page     of    

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGCS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>Health &amp; Safety Monitor</u>
	<u>Destry Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC Operator</u>

Work Completed: Completed boring activities at AOC-D. Drilled and collected  
AOC-D, D-001BH and D-002BH. At D-001BH, Int 1 (10.0-11.5' BLS); Int 2  
(15.0-16.5' BLS); Int 3 (25.0-26.5' BLS); TD = 26.8' BLS. No PID readings. D-002BH,  
Int 1 (9.0-10.5' BLS); Int 2 (15.0-16.5' BLS); Int 3 (21.5-23.0' BLS) Max PID = 10.5 ppm.  
Obtained C-001BH Int 1 (0.5-2.0' BLS) No PID reading. Encountered obstruction (rocks) at  
5.0' BLS. Could not continue. Will continue here at AOC-C on Monday. Obtained  
three surface sediment samples at AOC-C.

Deviations from the Work Plan: NONE - Two drilling locations at AOC-D approved  
on Thursday

Site Visitors:

NONE

# OPERATIONAL TECHNOLOGIES CORPORATION

## MODIFICATION TO WORK PLAN FOR FIELD WORK

at the

Jefferson Barracks Air National Guard Station

DAHA90-93-D-0005/0011

Originator/Date : Earl E. Parker II, Site Manager, (Date) : 12/9/94

Work Plan Topic : Installation of Piezometers at the Jefferson Barracks ANG-1.

Suggested Modification for Field Work : Piezometers will not be installed at the Station due to the lack of a continuous water table above the bedrock. 3 Piezometers were installed and only one (PZ-1) contained a water table. Following consultation with the ANGRC-CEVR Project Manager, the installation of piezometers was cancelled and all piezometers were grouted.

Reason for Modification : No continuous aquifer exists above the bedrock surface. Water was not encountered above the bedrock in two of three wells.

ANGRC/CEVR Project Manager Approval :

Lee Perry, ANGRC Project Manager

# OPERATIONAL TECHNOLOGIES CORPORATION

## MODIFICATION TO WORK PLAN FOR FIELD WORK

at the

Jefferson Barracks Air National Guard Station

DAHA90-93-D-0005/0011

Originator/Date : Earl E. Parker II, Site Manager, (Date) : 12/9/94

Work Plan Topic : Number of Borings At AOC-B and AOC-D.

Suggested Modification for Field Work : The number of Boring locations At AOC-D should be increased from 1 to 2 to better characterize TPH detected during to soil gas survey. Since the soil gas survey did not show widespread BTEX or TPH contamination at AOC-B, one of the five borings proposed for that AOC was transferred to AOC-D. Therefore, two borings will be installed at AOC-D and 4 borings will be installed at AOC-B as shown on the map attached to the daily progress report.

Reason for Modification : TPH detected at AOC-D could not be effectively characterized by the one boring planned for that location.

ANGRC/CEVR Project Manager Approval : \_\_\_\_\_

Lee Perry, ANGR Project Manager

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12 / 12 / 94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGUS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>Health &amp; Safety Monitor</u>
	<u>Deshy Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC Operator</u>

Work Completed: Drilled and collected Soil samples from AOCs as follows : C-001BH [Int1]; C-002BH, C-003BH, C-004BH, and C-005BH [Int 1 & Int 2]. No surface water samples collected due to lack of water in ditch.

Deviations from the Work Plan: Due to very shallow depth to Bedrock at this AOC-C, only one interval sample was collected at C-001BH and no Interval 3 samples were collected at C-002BH to C-005BH. No surface water is present in the ditch, therefore no surface water samplers were collected.

Site Visitors:

LEE PERRY - ANGRC/CEVR Dan Oakley - HAZWRAP

# OPERATIONAL TECHNOLOGIES CORPORATION

## DEVIATION FROM WORK PLAN DURING FIELD WORK

at the

Jefferson Barracks Air National Guard Station

DAHA90-93-D-0005/0011

Originator/Date : Earl E. Parker II, Site Manager, (Date) : 12/12/94

Work Plan Topic : Soil samples at AOC-C.

Deviation in Field Work : Three soil samples were not collected from all boring location as specified in the work plan. Actual sampling intervals collected were as follows :

C-001 BH [Int 1] only (Bedrock at 3.5' BLS)

C-002 BH [Int 1] and [Int 2] and [Int 3]

C-003 BH [Int 1] and [Int 2] (Bedrock at 7.5' BLS)

C-004 BH [Int 1] and [Int 2] (Bedrock at 6.5' BLS)

C-005 BH [Int 1] and [Int 2] (Bedrock at 6.0' BLS)

Reason for Deviation : The shallow depth to bedrock at the AOC-C locations did not allow for enough depth to be drilled for an intermediate sample. Interval 1 samples were collected at the land surface and interval 2 samples were collected above the bedrock surface.

ANGRC/CEVR Project Manager Approval :

Lee Perry, ANGR Project Manager

# OPERATIONAL TECHNOLOGIES CORPORATION

## DEVIATION FROM WORK PLAN DURING FIELD WORK

at the

Jefferson Barracks Air National Guard Station

DAHA90-93-D-0005/0011

Originator/Date : Earl E. Parker II, Site Manager, (Date) : 12/12/94

Work Plan Topic : Decontamination Water used during the Jefferson Barracks  
ANGS PA/SI.

Deviation in Field Work : The work plan calls for the use of ASTM Type II  
reagent water to be used during decontamination of sampling equipment.  
The water being used meets ASTM requirements for a Type I  
reagent water.

Reason for Deviation : ASTM Type I water has been used in the past  
and a change in future work plans will reflect the correct  
type of water being used.

ANGRC/CEVR Project Manager Approval : \_\_\_\_\_

Lee Perry, ANGR Project Manager

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12 / 13 / 94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANG - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>Health &amp; Safety Monitor</u>
	<u>Desty Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC Operator</u>

Work Completed: Drilled And collected soil samples from  
AOC-B. Collected all three Interval sampler from B-001BH,  
B-002BH, And B-003BH. Have one more boring at this  
location but will begin on it tomorrow.

Deviations from the Work Plan: NONE

Site Visitors:

LEE PERRY - ANGRC/CEVR Dan Oakely - HAZWRAP

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12/14/94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGUS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>Health &amp; Safety Monitor</u>
	<u>Decty Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC operator</u>

Work Completed: Drilled and collected soil sampler from AOC-B  
and AOC-A. Collected all three soil sample intervals from B-004BH,  
A-001BH, A-002BH, and A-003BH. Concludes all soil sampling at  
Jefferson Barracks. No precipitation occurred or is expected  
tomorrow so water samples (surface) from AOC-C will not  
be collected at this PA/SI. All three surface sediment samples  
were collected.

Deviations from the Work Plan: No surface water samples will be  
collected from AOC-C since there was never any water to  
collect.

Site Visitors:

LEE PERRY - ANGRC/CEVR

# OPERATIONAL TECHNOLOGIES CORPORATION

## DEVIATION FROM WORK PLAN DURING FIELD WORK

at the

Jefferson Barracks Air National Guard Station

DAHA90-93-D-0005/0011

Originator/Date : Earl E. Parker II, Site Manager, (Date) : 12/14/94

Work Plan Topic : Surface Water Samples At AOC-C

Deviation in Field Work : No water samples (surface) will be collected from AOC-C.

Reason for Deviation : No precipitation occurred during the duration of the PA/SI field investigation and there was never any standing or flowing water in the ditch to be sampled.

ANGRC/CEVR Project Manager Approval : \_\_\_\_\_

Lee Perry, ANGR Project Manager

# OpTech

## DAILY FIELD REPORT

Jefferson Barracks AIR NATIONAL GUARD STATION PA/SI  
DAHA90-93-D-0005/0011

Date 12 / 15 / 94

Page 1 of 1

TO : Lee Perry, ANGRC/CEVR Project Manager  
FROM : Earl Parker, OpTech Site Manager

Site Telephone Numbers : Jefferson Barracks ANGCS - (314) 263-8650, MAJ Keith Parrish.

OpTech Field Team :	Earl E. Parker II	Site Manager
	<u>Russ Cason</u>	<u>H &amp; S Monitor</u>
	<u>Deshy Greenway</u>	<u>Field Technician</u>
	<u>Mark Henson</u>	<u>Field GC Operator</u>

Work Completed: Demobilization And Clean-up Activities At  
All AOCs. Moved All investigation devices onsite to central  
storage location. Insured All AOCs were clean and transformed  
as much as practical to pre-investigative conditions. Conducted  
outbriefing with Station Personnel. Departed the site and  
begin return trip to San Antonio

Deviations from the Work Plan: NONE

Site Visitors:

LEE PERRY - ANGRC/CEVR

Jefferson Barracks Air National Guard Station  
PA/SI FIELD WORK DAHA90-93-D-0005/0011  
OpTech # 1315-105

INVESTIGATION DERIVED WASTE LOG

Drum	Contents (Non-Potable Water / Soil Cuttings)	Date Collected	% Full
#15	Soil - B-001BH	12-13-94	100%
#16	Soil - B-002BH	12-13-94	100%
#17	Soil - B-002BH	12-13-94	100%
#18	Soil - B-003BH	12-13-94	100%
#19	Soil - B-003BH	12-13-94	100%
#20	Soil - B-004BH	12-14-94	100%
#21	Soil - B-004BH	12-14-94	60%
#22	PPE / Refuse	12-6-94	100%
#23	Soil - A-001BH	12-14-94	100%
#24	Soil - A-001BH AND A-002BH	12-14-94	100%
#25	Soil - A-002BH	12-14-94	80%
#26	Decon WATER	12-12-94	100%
#27	Decon WATER	12-12-94	100%
#28	Decon WATER	12-12-94	100%

Location of Drums: CONCRETE PAD ADJACENT TO BLDG #41

Date Moved to Final Location : 12-15-94 Inspected by: R. CASON

Site Manager : Earl E. Parker II

Jefferson Barracks Air National Guard Station  
PA/SI FIELD WORK DAHA90-93-D-0005/0011  
OpTech # 1315-105

INVESTIGATION DERIVED WASTE LOG

Drum	Contents (Non-Potable Water / Soil Cuttings)	Date Collected	% Full
#29	Decon WATER	12-7-94	100 %
#30	Decon WATER	12-12-94	100 %
#31	Decon WATER	12-7-94	100 %
#32	Decon WATER	12-9-94	100 %
#33	Decon WATER	12-8-94	100 %
#34	Decon WATER	12-9-94	100 %
#35	Decon WATER	12-8-94	100 %
#36	Decon WATER	12-14-94	100 %
#37	Decon WATER	12-14-94	100 %
#38	Decon WATER	12-13-94	100 %
#39	Decon WATER	12-13-94	100 %
#40	Decon WATER	12-13-94	100 %
#41	Decon WATER	12-14-94	100 %
#42	Soil - A-003 BH	12-14-94	100 %

Location of Drums: Concrete Storage PAD ADJACENT to BLDG #41

Date Moved to Final Location : 12-15-94 Inspected by: R. Casun

Site Manager : Earl E. Parker II

Jefferson Barracks Air National Guard Station  
PA/SI FIELD WORK DAHA90-93-D-0005/0011  
OpTech # 1315-105

INVESTIGATION DERIVED WASTE LOG

Drum	Contents (Non-Potable Water / Soil Cuttings)	Date Collected	% Full
#43	DECON WATER	12-15-94	100%
#44	DECON WATER	12-15-94	100%
#45	DECON WATER	12-15-94	100%
#46	DECON WATER & SLUDGE FROM DECON STA.	12-15-94	100%

Location of Drums: CONCRETE PAD ADJACENT TO BLDG #41

Date Moved to Final Location : 12-15-94 Inspected by: R. CASON

Site Manager : Earl E. Parker II

Jefferson Barracks AIR NATIONAL GUARD STATION  
PA/SI FIELD WORK DAHA90-93-D-0005/0011  
OpTech # 1315-105

Calibration Log  
Photoionization Detector

Date/Time	Equipment Serial Number	Calibration Standard	Cal Gas Lot Number	Calibrated by:
12-6-94/0735	EI PID #48962-282	100 ppm isoButylene	412503-48	R.C.
R.C. 12-7-94/0738	EI PID #48962-282	100 ppm isoButylene	412503-48	R.C.
12-7-94/0747	LEL/O <sub>2</sub> #1267	45% Pentane	N/A	Factory
12-8-94/0740	EI PID #48962-282	100 ppm isoButylene	412503-48	R.C.
12-8-94/0750	LEL/O <sub>2</sub> #1267	25% Hexane	39506	R.C.
12-9-94/0705	EI PID #48962-282	100 ppm isoButylene	38849	R.C.
12-9-94/0710	LEL/O <sub>2</sub> #1267	25% Hexane	39506	R.C.
12-9-94/1145	EI PID #48962-282	100 ppm isoButylene	38849	R.C.
12-12-94/0645	EI PID #48962-282	100 ppm isoButylene	38849	R.C.
12-12-94/0652	LEL/O <sub>2</sub> #1267	25% Hexane	39506	R.C.
12-12-94/1355	EI PID #48962-282	100 ppm isoButylene	#267952-011393	R.C.
12-12-94/1715	EI PID #48962-282	100 ppm isoButylene	#267952-011393	R.C.
12-13-94/0700	EI PID #48962-282	100 ppm isoButylene	#267952-011393	R.C.
12-13-94/0710	LEL/O <sub>2</sub> #1267	25% Hexane	#39506	R.C.
12-14-94/0655	EI PID #48962-282	100 ppm isoButylene	#267952-011393	R.C.

**Jefferson Barracks AIR NATIONAL GUARD STATION**  
**PA/SI FIELD WORK DAHA90-93-D-0005/0011**  
**OpTech # 1315-105**

## Calibration Log Photoionization Detector

[illegible]

Jefferson Barracks Air National Guard Station  
PA/SI FIELD WORK DAHA90-93-D-0005/0011  
OpTech # 1315-105

INVESTIGATION DERIVED WASTE LOG

Drum	Contents (Non-Potable Water / Soil Cuttings)	Date Collected	% Full
#1	Soil-Z-002PZ	12-7-94	100
#2	Soil - Z-002PZ	12-7-94	60
#3	Soil - Z-001PZ	12-7-94	50
#4	Soil - Z-001PZ	12-7-94	100
#5	Soil - Z-003PZ	12-8-94	100
#6	Soil - D-001BH	12-9-94	100
#7	Soil - D-001BH	12-9-94	50
#8	Soil - D-002BH	12-9-94	90
#9	Soil - C-001BH	12-9-94	50
#10	Soil - C-001BH	12-12-94	100
#11	Soil C-002BH	12-12-94	100
#12	Soil C-003BH	12-12-94	80
#13	Soil-C-004BH AND C-005BH	12-12-94	100
#14	Soil - B-001BH	12-13-94	100

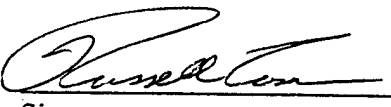
Location of Drums: Concrete Storage Pad Adjacent To Bldg #41

Date Moved to Final Location : 12-15-94 Inspected by: R. Cason

Site Manager : Earl E. Parker II

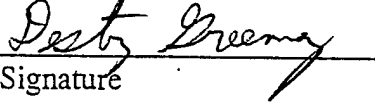
SAFETY PLAN COMPLIANCE AGREEMENT  
FOR JEFFERSON BARRACKS PIA/SI  
December 1994


I have received a copy of the Health and Safety Plan for the Project. I have reviewed the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the health and safety requirements specified in the plan.

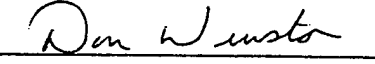
<u>Russell Cason</u>	<u></u>	<u>12-5-94</u>
Name	Signature	Date

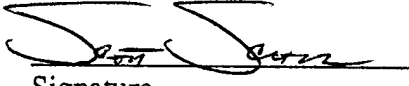
<u>MARK D. HENSON</u>	<u></u>	<u>12-5-94</u>
Name	Signature	Date


<u>Matt Alexander</u>	<u></u>	<u>12-5-94</u>
Name	Signature	Date

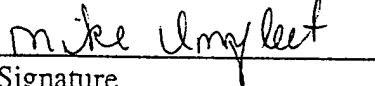
<u>Destry Greenway</u>	<u></u>	<u>12-5-94</u>
Name	Signature	Date

<u>EARL E PARKER</u>	<u></u>	<u>12-5-94</u>
Name	Signature	Date

<u>DON WINSTON</u>	<u></u>	<u>12-6-94</u>
Name	Signature	Date

<u>SCOTT SCHROEDER</u>	<u></u>	<u>12-6-94</u>
Name	Signature	Date

<u>MAX TINNIN</u>	<u></u>	<u>12-7-94</u>
Name	Signature	Date

<u>Mike UmFleet</u>	<u></u>	<u>12-7-94</u>
Name	Signature	Date

## SAFETY PLAN COMPLIANCE AGREEMENT

I have received a copy of the Health and Safety Plan for the Project. I have reviewed the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the health and safety requirements specified in the plan.

Lee E. Bony      [Signature]      12/12/94  
Name                      Signature                      Date

Dwight B. Catler      [Signature]      12/12/94  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

\_\_\_\_\_  
Name                      Signature                      Date

# LYMAN

SURVEYORS

and

ENGINEERS

12015 Mendoza Ave.

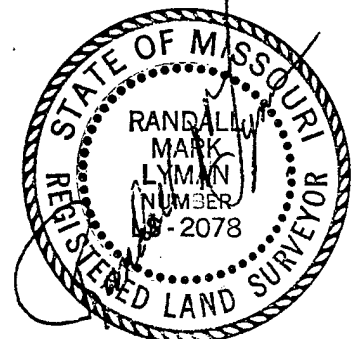
ST. LOUIS

(314) 355-4716

MO. 63138

**JEFFERSON BARRACKS AIR NATIONAL GUARD STATION  
SAINT LOUIS, MISSOURI  
REPORT OF HORIZONTAL COORDINATES AND ALTITUDES  
JANUARY 1995**

	<u>COORDINATES</u>	<u>ALTITUDES</u>
AOC "A"	BH1. N 114 - E 109	457.0
	BH2. N 100 - E 116	456.8
	BH3. N 114 - E 129	456.5
AOC "B"	BH1. N 192 - E 204	453.7
	BH2. N 176 - E 190	454.6
	BH3. N 181 - E 171	455.2
	BH4. N 169 - E 157	455.6
AOC "C"	BH1. N 116 - E 329	470.2
	BH2. N 208 - E 395	470.3
	BH3. N 219 - E 462	470.4
	BH4. N 224 - E 567	471.1
	BH5. N 224 - E 606	470.9
AOC "D"	BH1. N 391 - E 394	487.3
	BH2. N 404 - E 391	488.1
PIEZOMETER	PZ1. (REFER TO PLAT)	471.67
	PZ2. (REFER TO PLAT)	447.67
	PZ3. (ELIMINATED AS PER EARL PARKER, OPTECH)	
SEDIMENT SAMPLE	C1. N 116 - E 325	N/A
	C2. N 219 - E 462	N/A
	C3. N 224 - E 606	N/A



# LYMAN

SURVEYORS  
and  
ENGINEERS

12015 Mendoza Ave.

ST. LOUIS

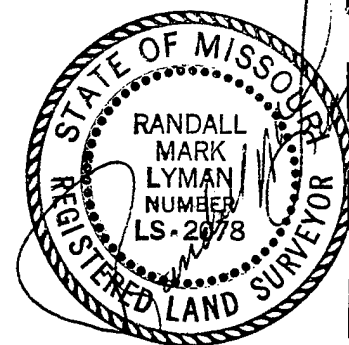
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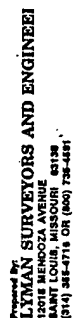
**JEFFERSON BARRACKS AIR NATIONAL GUARD STATION  
SAINT LOUIS, MISSOURI  
REPORT OF HORIZONTAL COORDINATES OF  
SOIL GAS SURVEY POINTS  
JANUARY 1995**

HORIZONTAL COORDINATES

AOC "A"	SOIL GAS SURVEY POINT	#1	N 127 - E 103
		#2	N 127 - E 118
		#3	N 127 - E 131
		#4	N 111 - E 103
		#5	N 111 - E 118
		#6	N 112 - E 131
		#7	N 97 - E 103
		#8	N 97 - E 118
		#9	N 97 - E 131
AOC "B"	SOIL GAS SURVEY POINT	#10	N 196 - E 173
		#11	N 196 - E 204
		#12	N 185 - E 173
		#13	N 175 - E 190
		#14	N 185 - E 204
		#15	N 173 - E 150
		#16	N 177 - E 173
		#17	N 177 - E 204
		#18	N 165 - E 151
		#19	N 165 - E 173
		#20	N 165 - E 204
AOC "C"	SOIL GAS SURVEY POINT	#21	N 116 - E 325
		#22	N 205 - E 360
		#23	N 208 - E 395
		#24	N 213 - E 424
		#25	N 219 - E 462
		#26	N 220 - E 495
		#27	N 222 - E 532
		#28	N 224 - E 567
		#29	N 224 - E 606
		#30	N 228 - E 639
		#31	N 232 - E 677
AOC "D"	SOIL GAS SURVEY POINT	#32	N 406 - E 379
		#33	N 405 - E 391
		#34	N 404 - E 399
		#35	N 390 - E 379
		#36	N 391 - E 390
		#37	N 390 - E 399
		#38	N 374 - E 379
		#39	N 374 - E 390
		#40	N 374 - E 399
		#41	N 362 - E 390



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**APPENDIX F**

**HAZARD RANKING SYSTEM (HRS) "DATA REQUIREMENTS FOR FEDERAL  
FACILITY DOCKET SITES" PACKAGE**

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**PA/SI DATA REQUIREMENTS FOR FEDERAL FACILITY DOCKET SITES**  
**Jefferson Barracks ANG, St. Louis, Missouri**

1. **Supply copies of all sampling data, on-site and off-site, including location map, detection limits (see definitions below), raw data sheets, QA/QC documents, date(s) sampled, analytical method(s) used, well or boring logs, and sampling technique(s).**

Sampling data, detection limits and sampling techniques can be found in Section 5.0. The location map can be found in Section 2.0. Raw data sheets, QA/QC documents, dates sampled, and analytical methods can be found in Appendix G. Well or boring logs can be found in Appendix C.

2. **Locate and identify on a map all known or suspected sources (see definition below). Supply all information about source(s) such as: dates of operation, use, or spillage; amounts of material deposited, stored, or spilled; dimensions of source(s); known or suspected hazardous substances (see definition below), etc.**

Dates of operation, use, or amounts of material deposited, stored, or spilled; dimensions of source(s); suspected hazardous substances can be found in Section 4.0 of the PA/SI Report.

3. **Provide a description of all aquifers beneath the site, including description of overlying materials, depth first encountered, thickness, and composition.**

The above information can be found in Section 3.0 of the PA/SI Report.

4. **For each source, choose one description from Table 1 that describes the groundwater contaminant. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description for this site is:

All sources: no evidence of hazardous substance migration from source area and a liner. Additionally, none of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or

(3) functioning leachate collection and removal system immediately above liner.

5. **Provide the location of all drinking water wells in all aquifers beneath the site within a 4-mile radius from the site (property boundary) by HRS distance ring and locate the wells within a one-mile radius on a 7.5 minute topographic map. Provide information on depth of well(s), screening interval(s), depth of aquifer(s) encountered, population served for multiple wells (i.e., municipal system), provide the number of wells, location of all wells (regardless of 4-mile limit), average annual pumpage of each well (regardless of 4-mile limit), and total population served by the system. Include information on all standby wells.**

There are no active public wells within a 4-mile radius of the site.  
(Source: St. Louis Department of Natural Resources)

6. **Provide information and location (on 7.5 minute topographic map) of wells within 4 miles that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.**

There are no active wells within a 4-mile radius used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area. (Source: St. Louis Department of Natural Resources)

7. **Provide the average number of persons per residence for county (or counties) that site is located in per the U. S. Census Bureau.**

The average number of persons per residence for the St. Louis County is 2.53 per household. (Source: University of Missouri – Urban Information Center)

8. **Identify and locate all surface water bodies within two miles of the site marking off the drainage routes (shown on 7.5 minute topographic map) from each source to applicable surface water bodies. Provide the average annual cubic feet per second flow for each surface water body within 15 miles downriver or radius from the point of probable entry into surface water. For lakes, provide information on inflow and outflow.**

Figure G shows the surface bodies of water within a 2-mile radius and the drainage route from the station. Surface water located within two miles of the site is the Mississippi River, Hill Lake, Mattese Creek, Palmer Creek, Gravois Creek and River des Peres Drainage. The Meramec River enters the Mississippi within 15 miles downriver from Jefferson Barracks. The drainage directly into the Mississippi from the west is chiefly through the various branches of the River des Peres. The USGS St. Louis field office reported the annual mean flow velocity for the Mississippi River at St. Louis is 252,000 cubic feet per second. Information on the inflow and outflow of Hill Lake was not available.

9. For each source, choose one description from Table 2 that describes the surface water containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.

The best description from Table 2 for this site is: no evidence of hazardous substance migration from source area and no maintained engineered cover or run-on control or runoff management system.

10. Provide the number of acres in each drainage basin.

The number of acres in the Mississippi River drainage basin is: 446,080,000 acres.  
(Source: USGS - Water Resources Division)

11. From Table 3, choose the predominant soil group (surface soil) which comprises the largest total area within each drainage area.

The best soil description for this site is: Moderately fine-textured soils with low infiltration rates (for example: silty loams).

12. Provide the two-year, 24-hour rainfall.

The two year, 24-hour rainfall is 3.5 inches. (Source: PA/SI Report)

13. From Table 4, choose the floodplain category of each source (supply Federal Emergency Management Agency floodplain map) and determine if each source meets the criteria from Table 5 (engineer's certification).

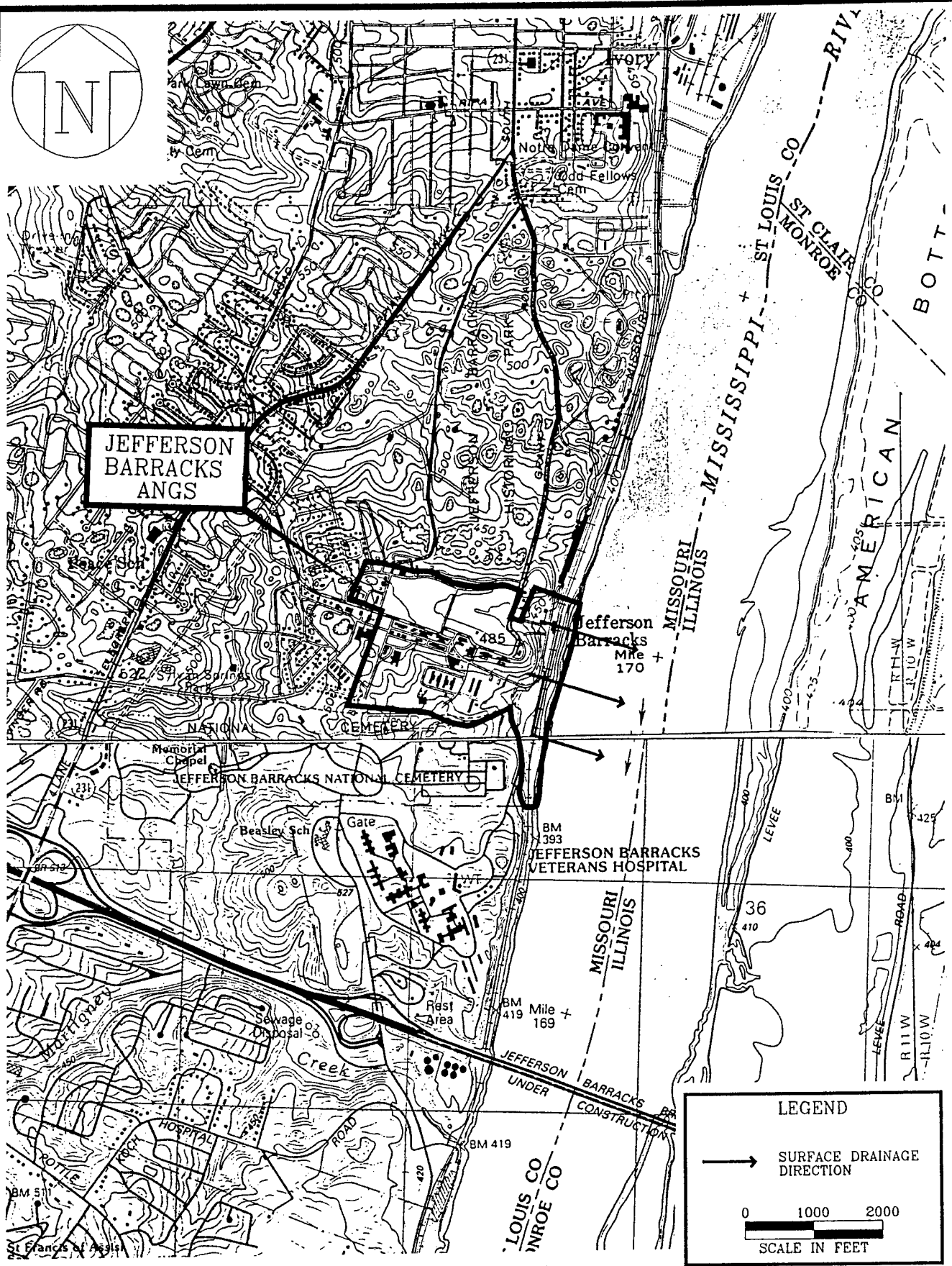


FIGURE F

P\JEFFERSM\TOPO

SURFACE DRAINAGE MAP  
157th ACG, Jefferson Barracks ANG  
St. Louis, Missouri

OPTTECH  
OPERATIONAL TECHNOLOGIES  
CORPORATION

FEBRUARY 1995

This site is not within the 100 year floodplain (Source: City of St. Louis – Planning & Zoning Department).

14. Provide the location of all drinking water intakes within 15 downstream miles (rivers) or 15-mile radius (lakes, bays, etc.). Provide information on population served. For multiple intakes (i.e., municipal system), provide information on the number of intakes, location of all intakes (regardless of 15-mile limit), and total population served by system. Include information on all standby intakes.

There are two drinking water intakes within a 15-mile radius of the site. Both originate from the Meramac River, and serve an estimated 100,000 people of the south St. Louis County. (Source: St. Louis County Water Company)

15. Provide information and location of intakes within 15 miles downriver (radius in lake or bay) that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.

This information was not available for public disclosure. (Source: St. Louis County Water Company)

16. Provide any surface water body 15 miles downriver (radius in lakes or bay) used for drinking water.

The Mississippi River is a surface water body used for drinking purposes. (Source: St. Louis County Water Company)

17. Provide the average human food chain production (pounds per year) for each surface water body 15 miles downriver or 15-mile radius in lake.

This information has not yet been made available.

18. Within a 4-mile radius from the site and 15 miles downriver, or radius in lake, identify all sensitive environments that exist. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.). Note that there could be multiple sensitive environments within a sensitive environment.

A list of Federally listed threatened, endangered and candidate species can be found in Section 3.6. (Source: U. S. Department of the Interior, Fish & Wildlife Service)

19. **What is the linear frontage of all wetlands 15 miles downriver or 15-mile radius in lake?**

There are approximately 32 miles of linear frontage 15 miles downriver from the site. (Source: U. S. Department of the Interior Fish and Wildlife Wetlands Map)

20. **Provide the location and number of persons residing, working, attending school, or day care within 200 feet. This includes both the Air and Army Guard.**

The population of Jefferson Barracks ANGCS during the week is about 150 people. On one weekend each month, the Unit Training Assembly convenes with approximately 500-700 personnel.

21. **Identify all terrestrial sensitive environments that exist on-site. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.) and locate each on a 7.5 minute topographic map. Note that there could be multiple sensitive environments within a sensitive environment.**

There are no sensitive environments existing on site. (Source: U. S. Department of the Interior Fish & Wildlife Service)

22. **For each source, choose one description from Table 8 that describes the accessibility to a human population. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description from Table 8 for site is: Surrounded by maintained fence and natural barriers. Physically inaccessible to public, with no evidence of public recreation use.

23. **Provide the total number of people in following distance rings from source(s)?**

- 0 - 1/4 mile = 178 persons
- 1/4 - 1/2 mile = 871 persons

- 1/2 - 1 mile = 4,996 persons
- 1 - 2 miles = 22,918 persons
- 2 - 3 miles = 33,870 persons
- 3 - 4 miles = 49,275 persons

Use 1990 Census data and/or actual house counts. Document how calculated.

Source: 1990 Census (block group level population aggregates)

Prepared by: GAWKIEST Information Technologies, Inc.

24. For each source, choose one description from Table 9 that describes the gaseous containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]), as to why the source meets that description and not any other in the Table. From Table 10, choose the appropriate description of each source type. For each source, choose one description from Table 11 that describes the particulate containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.

Table 9: Does not apply.

25. Provide the location and area (in acres) of all wetlands within 4 miles of the site.

There are approximately 1088 acres of wetlands within a 4-mile radius from the site.  
(Source: U. S. Department of the Interior Fish and Wildlife Wetlands Map)

26. Contact EPA Regional Office immediately if any radionuclides are present or suspected at the site and supply all radiological information known to date.

According to information supplied by TSGT Art Schuermann, there are no radionuclides suspected at the site or radiological dumping known to date at the site.

27. For all of the above information, use primary data source and supply two copies or specify where copies may be obtained.
28. Provide any removals or remedial actions taken place at site.

Previous removals or remedial activities can be found in Subsection 1.2 of the PA/SI Report.

29. If information relevant to a question already has been provided to the EPA, your answer may precisely cite the previous submittal by title, date, page, and paragraph number rather than resubmitting the information.

## DEFINITIONS

### Detection Limit (DL)

Lowest amount that can be distinguished from the normal random "noise" of an analytical instrument or method. For this submission, the detection limit used is the method detection limit (MDL), or, for real-time instruments, the detection limit of the instrument as used in the field.

### Hazardous Substance

CERCLA hazardous substances, pollutants, and contaminants as defined in CERCLA Sections 101(14) and 101(33).

### Method Detection Limit (MDL)

Lowest concentration of an analyte that a method can detect reliably in either a sample or blank.

### Sample Quantitation Limit (SQL)

Quantity of a substance that can reasonably be quantified given the methods of analysis and sample characteristics that may affect quantification (for example, dilution, concentration).

**Site:** Area(s) where a hazardous substance has been deposited, stored, disposed, or placed, or has otherwise come to be located. Such areas may include multiple sources and may include areas between sources.

**Source:** Any area where a hazardous substance has been deposited, stored, disposed, or placed, plus those soils that have become contaminated from migration of a hazardous substance. Sources do not include those volumes of air, groundwater, surface water, or surface water sediments that have become contaminated by migration, except: in the case of either a groundwater plume with no identified source, or contaminated surface water sediments with no identified source, the plume may be considered a source.

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Table 1

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No liner.

No evidence of hazardous substance migration from source area, a liner, and:

- (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.
- (b) Any one of the three items in (a) present.
- (c) Any two of the items in (a) present.
- (d) All three items in (a) present plus a functioning groundwater monitoring system.
- (e) All items in (d) present plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, functioning groundwater monitoring system, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquid or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

No liner.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) Liner.
- (b) Liner with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (c) Double liner with functioning leachate collection and removal system between liners, and functioning groundwater monitoring system.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

## Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning, maintained, run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

## Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No liner (or no essentially impervious base) under container area.

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Liner (or essentially impervious base) under container area.
- (b) Essentially impervious base under container area with liquids collection and removal system.
- (c) Containment system includes essentially impervious base, liquids collection system, sufficient contain 10 percent of volume of all containers, and functioning and maintained run-on control; plus functioning groundwater monitoring system, and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (d) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, single liner under container area with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (e) Same as (d) except: double liner under container area with functioning leachate collection and removal system between liners.

Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained runoff control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquid or solidification of remaining wastes and waste residues).

## Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

Tank and ancillary equipment not provided with secondary containment, (e.g., liner under tank area, vault system, double wall).

No diking (or no similar structure) surrounding tank and ancillary equipment

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment.
- (b) Tank and ancillary equipment provided with secondary containment with leak detection and collection system.
- (c) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in timely manner, at least weekly inspection of tank and secondary containment system, all leaking or unfit-for-use tank systems promptly responded to, and functioning groundwater monitoring system.
- (d) Containment system has sufficient capacity to hold volume of all tanks within tank containment area and to provide adequate freeboard, single liner under that containment area with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (e) Same as (d) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

## Table 2

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No evidence of hazardous substance migration from source areas and:

- (a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
- (b) Any one of the two items in (a) present.
- (c) Any two of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system, or (3) liner with functioning leachate collection and removal system immediately above liner.
- (d) All items in (c) present.

- (e) All items in (c) present, plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquids or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

#### Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained. No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) No liner.
- (b) Liner.
- (c) Liner with functioning leachate collection and removal system below liner.
- (d) Double liner with functioning leachate collection and removal system between liners.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

#### Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning and maintained run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

#### Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area and container area surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Essentially impervious base under container area with liquids collection and removal system.
- (b) Containment system includes essentially impervious base, liquids collection system, sufficient capacity to contain 10 percent of volume of all containers, and functioning and maintained run-on control; and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (c) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, and single liner under container area with functioning leachate collection and removal system below liner.
- (d) Same as (c) except: double liner under container area with functioning leachate collection and removal system between liners. Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained run-on control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

#### Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

No diking (or no similar structure) surrounding tank and ancillary equipment.

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area and tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment (e.g., liner under tank area, vault system, double wall) with leak detection and collection system.
- (b) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in a timely manner, at least weekly inspection of tank and secondary containment system, and all leaking or unfit-for-use tank systems promptly responded to.

- (c) Containment system has sufficient capacity to hold total volume of all tanks within the tank containment area and to provide adequate freeboard, and single liner under tank containment area with functioning leachate collection and removal system below liner.
- (d) Same as (c) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 3  
Surface Soil Description

Coarse-textured soils with high infiltration rates (for example, sands, loamy sands).  
 Medium-textured soils with moderate infiltration rates (for example, sandy loams, loams).  
 Moderately fine-textured soils with low infiltration rates (for example, silty loams, silts, sandy clay loams).  
 Fine-textured soils with very low infiltration rates (for example, clays, sandy clays, silty clay loams, clay loams, silty clays); or impermeable surfaces (for example, pavement).

Table 4  
Floodplain Categories

Source floods annually.  
 Source in 10-year floodplain.  
 Source in 100-year floodplain.  
 Source in 500-year floodplain.  
 None of the above.

Table 5  
Flood Containment

Documentation that containment at the source is designed, constructed, operated, and maintained to prevent a washout of hazardous substances by the flood being evaluated (see floodplain category).

Table 6  
Sensitive Environments

Critical habitat<sup>a</sup> for Federal designated endangered or threatened species.  
 Marine Sanctuary.  
 National Park.  
 Designated Federal Wilderness Area.  
 Areas identified under Coastal Zone Management Act<sup>b</sup>.

Sensitive areas identified under National Estuary Program<sup>c</sup> or Near Coastal Waters Program<sup>d</sup>.  
 Critical areas identified under the Clean Lakes Program<sup>e</sup>.  
 National Monument<sup>f</sup>.  
 National Seashore Recreational Area.  
 National Lakeshore Recreational Area.  
 Habitat known to be used by Federal designated or proposed endangered or threatened species.  
 National Preserve.  
 National or State Wildlife Refuge.  
 Unit of Coastal Barrier Resources System.  
 Coastal Barrier (undeveloped).  
 Federal land designated for protection of natural ecosystems.  
 Administratively Proposed Federal Wilderness Area.  
 Spawning areas critical<sup>g</sup> for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters.  
 Migratory pathways and feeding areas critical for maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time.  
 Terrestrial areas utilized for breeding by large or dense aggregations of animals<sup>h</sup>.  
 National river reach designated as Recreational.  
 Habitat known to be used by State designated endangered or threatened species.  
 Habitat known to be used by species under review as to its Federal endangered or threatened status.  
 Coastal Barrier (partially developed).  
 Federal designated Scenic or Wild River.  
 State land designated for wildlife or game management.  
 State designated Scenic or Wild River.  
 State designated Natural Areas.  
 Particular areas, relatively small in size, important to maintenance of unique biotic communities.  
 State designated areas for protection or maintenance of aquatic life<sup>i</sup>.

---

<sup>a</sup>Critical habitat as defined in 50 CFR 424.02.

<sup>b</sup>Areas identified in State Coastal Zone Management plans as requiring protection because of ecological value.

<sup>c</sup>National Estuary Program study areas (Subareas within subareas) identified in Comprehensive Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act, as amended).

<sup>d</sup>Near Coastal Waters as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act, as amended.

<sup>e</sup>Clean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) identified by State Clean Lake Plans as critical habitats (Section 314 of Clean Water Act, as amended).

<sup>f</sup>Use only for air migration pathway.

<sup>g</sup>Limit to areas described as being used for intense or concentrated spawning by a given species.

<sup>h</sup>For the air migration pathway, limit to terrestrial vertebrate species. For the surface water migration pathway, limit to terrestrial vertebrate species aquatic or semiaquatic foraging habits.

<sup>i</sup>Areas designated under Section 305(a) of Clean Water Act, as amended.

Table 7  
 Terrestrial Sensitive Environments

Terrestrial critical habitat<sup>a</sup> for Federal designated endangered or threatened species.  
 National Park.  
 Designated Federal Wilderness Area.

National Monument.

Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species.

National Preserve (terrestrial).

National or State Terrestrial Wildlife Refuge.

Federal land designated for protection of natural ecosystems.

Administratively proposed Federal Wilderness Area.

Terrestrial areas utilized for breeding by large or dense aggregations of animals<sup>b</sup>.

Terrestrial habitat known to be used by State designated endangered or threatened species.

Terrestrial habitat known to be used by species under review as to its Federal designated endangered or threatened status.

State lands designated for wildlife or game management.

State designated Natural Areas.

Particular area, relatively small in size, important to maintenance of unique biotic communities.

---

<sup>a</sup>Critical habitat as defined in 50 CFR 42.

<sup>b</sup>Limit to vertebrate species.

Table 8

Area of Observed Contamination

Designated recreational area.

Regularly used for public recreation (for example, fishing, hiking, softball).

Accessible and unique recreational area (for example, vacant lots in urban area).

Moderately accessible (may have some access improvements — for example, gravel road), with some public recreation use.

Slightly accessible (for example, extremely rural area with no road improvement), with some public recreation use.

Accessible, with no public recreation use.

Surrounded by maintained fence or combination of maintained fence and natural barriers.

Physically inaccessible to public, with no evidence of public recreation use.

Table 9

Gas Containment Description

All situations except those specifically listed below.

Evidence of biogas release.

Active fire within source.

Gas collection/treatment system functioning, regularly inspected, maintained, and completely covering source.

Source substantially surrounded by engineering windbreak and no other containment specifically described in this table applies.

Source covered with essentially impermeable, regularly inspected, maintained cover.

Uncontaminated soil cover >3 feet:

Source substantially vegetated with little exposed soil.

Source lightly vegetated with much exposed soil.

Source substantially devoid of vegetation.

Uncontaminated soil cover  $\geq 1$  foot and  $\leq 3$  feet:

Source heavily vegetated with essentially no exposed soil.

Cover soil resistant to gas migration<sup>a</sup>.

Cover soil type not resistant to gas migration<sup>a</sup> or unknown.

Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration<sup>a</sup>.

Other.

Uncontaminated soil cover  $< 1$  foot:

Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration<sup>a</sup>.

Other.

Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.

Source consists solely of intact, sealed containers:

Totally protected from weather by regularly inspected, maintained cover.

Other.

---

<sup>a</sup>Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

Table 10  
Source Type

Active fire area.

Burn pit.

Containers or tanks (buried/belowground):

Evidence of biogas release.

No evidence of biogas release.

Containers or tanks, not elsewhere specified.

Contaminated soil (excluding land treatment).

Landfarm/land treatment.

Landfill:

Evidence of biogas release.

No evidence of biogas release.

Pile:

Tailings pile.

Scrap metal or junk pile.

Trash pile.

Chemical waste pile.

Other waste piles.

Surface impoundments (buried/backfilled):

Evidence of biogas release.

No evidence of biogas release.

Surface impoundment (not buried/backfilled):

Dry.

Other.

Other types of sources, not elsewhere specified.

Table 11  
Particulate Containment Description

All situations except those specifically listed below.

Source contains only particulate hazardous substances totally covered by liquids.

Source substantially surrounded by engineered windbreak and no other containment specifically described in this table applies.

Source covered with essentially impermeable, regularly inspected, maintained cover.

Uncontaminated soil cover >3 feet:

Source substantially vegetated with little or no exposed soil.

Source lightly vegetated with much exposed soil.

Source substantially devoid of vegetation.

Uncontaminated soil cover  $\geq 1$  foot and  $\leq 3$  feet:

Source heavily vegetated with essentially no exposed soil:

Cover soil type resistant to gas migration<sup>a</sup>.

Cover soil type not resistant to gas migration<sup>a</sup>.

Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration<sup>a</sup>.

Other.

Uncontaminated soil cover <1 foot:

Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration<sup>a</sup>.

Other.

Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.

Source consists solely of containers:

All containers contain only liquids.

All containers intact, sealed, and totally protected from weather by regularly inspected, maintained cover.

All containers intact and sealed.

Other.

---

<sup>a</sup>Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

**APPENDIX G**

**ANALYTICAL REPORTS/CHAIN OF CUSTODY**

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TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 9421444  
Log in No. : 22714, 22718  
P.O. No. : Pending  
Date : 01/23/95  
SDG : JEFF1

SUMMARY DATA REPORT  
PACKAGE FOR

Operational Technologies Corp.

4100 N. West Loop 410, Suite 230

San Antonio, TX 78229

ATTN: Earl Parker  
REF: Jefferson Barracks ANG, Proj.#1315-105

LABORATORY  
NUMBER

SAMPLE  
IDENTIFICATION

TYPE OF  
SAMPLE

SEE NEXT PAGE

WE CERTIFY THAT THIS REPORT IS A  
TRUE REPORT OF RESULTS OBTAINED  
FROM OUR TESTS OF THIS MATERIAL.

NYS Lab ID. #10195  
NJ Cert. #73469  
ep

RESPECTFULLY SUBMITTED,  
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE  
EXEC. VICE PRESIDENT

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2271801	C-2-1B	Soil
2271802	C-2-2B	Soil
2271803	C-2-3B	Soil
2271804	C-3-1B	Soil
2271805	C-3-2B	Soil
2271806	C-4-1B	Soil
2271807	C-4-2B	Soil
2271808	C-5-2B	Soil
2271809	C-5-1B	Soil
2271810	C-5-1BMS	Soil
2271811	C-5-1BMSD	Soil

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2271401	D-1-1B	Soil
2271402	D-1-2B	Soil
2271403	D-1-3B	Soil
2271404	D-2-1B	Soil
2271405	D-2-2B	Soil
2271406	D-2-3B	Soil
2271407	C-1-1B	Soil
2271408	C-1SED	Soil
2271409	C-2SED	Soil
2271410	C-3SED	Soil

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TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 9421444  
Log in No.: 22731  
P.O. No.: Pending  
Date: 01/19/95  
SDG No.: JEFF2

ANALYTICAL DATA REPORT  
PACKAGE FOR

Operational Technologies Corp.

4100 N. West Loop 410, Suite 230

San Antonio, TX 78229

ATTN: Earl Parker  
REF: Jefferson Barracks Angs, Proj. #1315-105

LABORATORY  
NUMBER

SAMPLE  
IDENTIFICATION

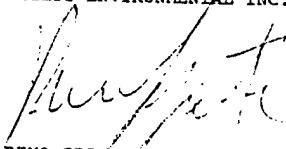
TYPE OF  
SAMPLE

SEE NEXT PAGE

WE CERTIFY THAT THIS REPORT IS A  
TRUE REPORT OF RESULTS OBTAINED  
FROM OUR TESTS OF THIS MATERIAL.

NYS Lab ID. #10195  
NJ Cert. #73469  
mar

RESPECTFULLY SUBMITTED,  
NYTEST ENVIRONMENTAL INC.

  
REMO GIGANTE  
EXEC. VICE PRESIDENT

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2273101	B-1-1B	Soil
2273102	B-1-2B	Soil
2273103	B-1-3B	Soil
2273104	B-2-1B	Soil
2273105	B-2-2B	Soil
2273106	B-2-2BMS	Soil
2273107	B-2-2BMSD	Soil
2273108	B-2-3B	Soil
2273109	B-3-1B	Soil
2273110	B-3-2B	Soil
2273111	B-3-3B	Soil



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 9421444  
Log in No. : 22745  
P.O. No. : Pending  
Date : 01/20/95  
SDG : JEFF3

ANALYTICAL DATA REPORT  
PACKAGE FOR

Operational Technologies Corp.

4100 N. West Loop 410, Suite 230

San Antonio, TX 78229

ATTN: Earl Parker  
REF: Jefferson Barracks ANG, Proj.#1315-105

LABORATORY  
NUMBER

SAMPLE  
IDENTIFICATION

TYPE OF  
SAMPLE

S E E N E X T P A G E

WE CERTIFY THAT THIS REPORT IS A  
TRUE REPORT OF RESULTS OBTAINED  
FROM OUR TESTS OF THIS MATERIAL.

NYS Lab ID. #10195  
NJ Cert. #73469  
ep

RESPECTFULLY SUBMITTED,  
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE  
EXEC. VICE PRESIDENT

Report on sample(s) furnished by client applies to sample(s) Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2274501	B-4-1B	Soil
2274502	B-4-2B	Soil
2274503	B-4-3B	Soil
2274504	A-1-1B	Soil
2274505	A-1-2B	Soil
2274506	A-1-2BMS	Soil
2274507	A-1-2BMSD	Soil
2274508	A-1-3B	Soil
2274509	A-2-1B	Soil
2274510	A-2-2B	Soil
2274511	A-2-3B	Soil
2274512	A-3-1B	Soil
2274513	A-3-2B	Soil
2274514	A-3-3B	Soil

**NARRATIVE DISCUSSION**  
**VOLATILES - 22714, 22718**

SDG: Jeff 1

**INTRODUCTION**

This narrative covers the analysis of 13 samples in accordance with protocols based on SW-846 Method 8240.

**HOLDING TIMES**

The analytical holding time for this analysis was met.

**CALIBRATIONS**

All required minimum RRFs and maximum % RSD initial calibration requirements have been met in accordance with the Method.

All required minimum RRFs and maximum % D continuing calibration requirements have been met in accordance with the Method.

**METHOD BLANKS**

The method blank associated with these samples met all method requirements.

**MATRIX SPIKES**

Sample C-5-1B was utilized in the MS/MSD series.

All spike recoveries and RPD values fell within advisory QC limits.

**SURROGATES**

All surrogate recoveries met QC criteria.

**INTERNAL STANDARDS**

All area responses and retention times fell within acceptable ranges.

**SAMPLE COMMENTS**

No analytical problems were encountered.

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**NARRATIVE DISCUSSION**  
**SEMIVOLATILES - 22714, 22718**  
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**SDG NO. JEFF1**

**INTRODUCTION**

This narrative covers the analysis of nineteen (19) samples in accordance with the protocols based on SW846 Method 8270.

**HOLDING TIMES**

The extraction and analytical holding times for this analysis were met with the exception of C-3SED which is being reextracted outside of holding time.

**CALIBRATIONS**

All required minimum RRFs and maximum % RSD initial calibration requirements have been met in accordance with the Method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the Method.

**METHOD BLANKS**

The method blank associated with these samples did not contain any target compounds.

**SURROGATES**

Surrogate recoveries (except for samples diluted 4-fold [4x] and more) were within QC limits with the exception of sample C-3SED, which showed high recoveries. This sample will be reextracted. The results of analysis will follow this report.

**MATRIX SPIKES**

Sample C-5-1B was utilized in the soil, low level MS/MSD series.

Three (3) out of twenty two (22) spike recoveries and six (6) out of eleven (11) RPD values were above advisory QC limits.

**INTERNAL STANDARDS**

All area responses and retention times fell within an acceptable range.

**SAMPLE COMMENTS**

No analytical problems were encountered.

Samples C-1SED and C-2SED required dilutions for analysis due to sample matrices.

As previously mentioned sample C-3SED required reextraction due to surrogate recoveries which fell outside QC limits. Reextraction was performed outside of the allowable holding time. The results of analysis of this reextract will follow this report.

No further analytical problems were encountered.

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NARRATIVE DISCUSSION  
GC FUEL - 22714 & 22718

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Surrogates

All recoveries met QC criteria.

1

Matrix Spike / Matrix Spike Duplicate (MS/MSD)

Sample C-5-1B was utilized for MS/MSD analysis.

Method Blanks

No target compounds were detected in FBLK23.

Calibrations

The initial and continuing calibrations passed QC criteria.

Samples

All samples were analyzed as per a modified SW-846 Method 8015. Sample C-1-1B exhibited multiple peaks near the C20 range and was quantitated against C20 from the DRO mix standard. No further analytical problems were encountered.

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NARRATIVE DISCUSSION  
GC GAS - 22714 & 22718

---

Surrogates

All recoveries met QC criteria.

1

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample C-5-1B was utilized for the MS/MSD.

Method Blanks

No target compounds were detected in VBLK03, VBLK05 or VBLK07.

Calibrations

The initial and continuing calibrations passed QC criteria.

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=

Samples

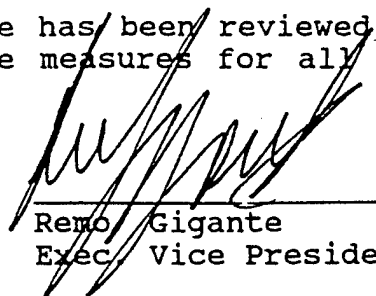
All samples were analyzed as per a modified SW-846 Method 8015. No analytical problems were encountered.

c:\wp51\cns\ac

00017

# nytest environmental

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.



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Remo Gigante  
Exec. Vice President

00018

# METHODOLOGY SUMMARY

## AQUEOUS METHODOLOGIES:

	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630/ 3640/3660		
Organochlorine Pesticide and PCB's by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1

## NON-AQUEOUS METHODOLOGIES:

BNA, Pesticides/PCB's Extraction	3550
AA/ICP Sample Preparation	3050
Furnace Sample Preparation	3020/3030/3050
Mercury Sample Preparation	7471
Clean-Up	3610/3620/3630/ 3640/3660

## GC, Gas Chromatography/Mass Spectrometry:

Purgeable Organics	8240/8021
Base/Neutral and Acid Extractables	8270
Organophosphorus Pesticides	8140
Organochlorine Pesticide and PCB's by Gas Chromatography	8080
BTEX	8020
Halogenated Purgeable Organics	8010

00010

# METHODOLOGY SUMMARY

## INDUCTIVELY COUPLED PLASMA (ICP):

### REFERENCE 1

### REFERENCE 2

Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010

## FURNACE AA:

Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
Thallium	279.2	7841
Tin	282.2	
Vanadium	286.2	7911
Mercury	245.1	7470/7471

## ICAP:

Priority Pollutants	200.7	6010/7060/ 7470/7740
TAL Metals	200.7	6010/7060/ 7470/7740
RCRA Metals	200.7	6010/7060/ 7470/7740

00020

# METHODOLOGY SUMMARY

## ADDITIONAL INORGANIC PARAMETERS:

	REFERENCE 1	REFERENCE 2
Biochemical Oxygen Demand	405.1	
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance		9050
Odor	140.1	
pH	150.1	
pH		9045/9040/9041
TDS	160.1	
TSS	160.2	
TS	160.3	
Hardness	130.1	
Temperature	170.1	
Turbidity	180.1	
Acidity	305.1	
Alkalinity	310.1	
Ammonia	350.2/350.3	
Chloride	325.3	
Chloride		9252
Residual Chlorine	330.2	
COD	410.3/410.4	
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Grease		9070/9071
Fluoride	340.2	
TKN	351.2	
NO2/NO3	353.2	9200
D.O	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
Silica	370.1	
Sulfate	375.2/375.4	9038
Sulfide	376.1	9030
Surfactants	425.1	
TOC	415.1	9060
TOX		9020

## MISCELLANEOUS ANALYSIS:

Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapter 8.3
Paint Filter Liquid Test	9095
Toxicity Characteristic Leaching Procedure (TCLP)	(REF 4)
Cation Exchange Capacity of Soils	9080

00021

METHODOLOGY SUMMARY

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REFERENCE 6

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Total Coliform	909A
Fecal Coliform	9096
Fecal Streptococcus Coliform	910B
Standard Plate Count	907
Hexavalent Chromium	312B
Carbonaceous BOD	507

## METHODOLOGY SUMMARY

### REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

**NARRATIVE DISCUSSION  
VOLATILES - 22731**

**SDG NO. JEFF2**

**INTRODUCTION**

This narrative covers the analysis of nine (9) samples in accordance with protocols based on SW-846 Method 8240.

**HOLDING TIMES**

The analytical holding time for this analysis was met.

**CALIBRATIONS**

All required minimum RRFs and maximum % RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

**METHOD BLANKS**

The method blanks associated with these samples met all method requirements.

**SURROGATES**

All surrogate recoveries met QC criteria.

**MATRIX SPIKES**

Sample B-2-2B was utilized in the MS/MSD series. All spike recoveries and RPD values fell within the advisory QC limits.

**INTERNAL STANDARDS**

All area responses and retention times fell within an acceptable range.

**SAMPLE COMMENTS**

No analytical problems were encountered.

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**NARRATIVE DISCUSSION  
SEMIVOLATILES - 22731**

**SDG NO. JEFF2**

**INTRODUCTION**

This narrative covers the analysis of nine (9) samples in accordance with protocols based on SW-846 Method 8270.

**HOLDING TIMES**

The extraction and analytical holding times for this analysis were met.

**CALIBRATIONS**

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

**METHOD BLANKS**

No target analytes were detected in method blank SBLK14.

**SURROGATES**

All samples met surrogate QC criteria.

**MATRIX SPIKES**

Sample B-2-2B was utilized in the MS/MSD series. All spike recoveries and RPD values fell within QC limits.

**INTERNAL STANDARDS**

All area responses and retention times fell within an acceptable range.

**SAMPLE COMMENTS**

Due to the viscous nature of the sample extracts, B-1-1B, B-3-1B and B-3-2B were analyzed at dilutions.

No other analytical problems were encountered.

00011

NARRATIVE DISCUSSION  
GC GAS - 22731

---

Surrogates

All recoveries met QC criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample B-2-2B was utilized for the MS/MSD.

Method Blanks

No target compounds were detected in VBLK50 or VBLK53.

Calibrations

The initial and continuing calibrations passed QC criteria.

Samples

All samples were analyzed as per a modified SW-846 Method 8015. Sample B-1-1B exhibited peaks which did not match that of Gasoline and were quantitated "as Gasoline". No further analytical problems were encountered.

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NARRATIVE DISCUSSION  
GC FUEL - 22731

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Surrogates

Naphthalene was not detected in sample B-2-1B. The sample was reextracted outside holding time and the recovery met QC criteria. All other recoveries met QC criteria.

Matrix Spike / Matrix Spike Duplicate (MS/MSD)

Sample B-2-2B was utilized for MS/MSD analysis.

Method Blanks

No target compounds were detected in FBLK19 or FBLK24.

Calibrations

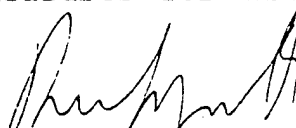
The initial and continuing calibrations passed QC criteria.

Samples

All samples were analyzed as per a modified SW-346 Method 8015. Due to weathering and alkane degradation sample B-1-1B did not exhibit the exact peak pattern of #2 Fuel Oil, but was quantified as #2 Fuel Oil. This sample also had waste oil present and was quantitated using the peak height. Samples B-3-1B and B-3-2B contained late eluting hydrocarbon peaks which were quantitated as C20. No further analytical problems were encountered.

# nytest environmental<sub>inc</sub>

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.



---

Remo Gigante  
Exec. Vice President

00014

# METHODOLOGY SUMMARY

## AQUEOUS METHODOLOGIES:

	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630/ 3640/3660		
Organochlorine Pesticide and PCB's by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Ease/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1

## NON-AQUEOUS METHODOLOGIES:

BNA, Pesticides/PCB's Extraction	3550
AA/ICP Sample Preparation	3050
Furnace Sample Preparation	3020/3030/3050
Mercury Sample Preparation	7471
Clean-Up	3610/3620/3630/ 3640/3660

## GC, Gas Chromatography/Mass Spectrometry:

Purgeable Organics	8240/8021
Base/Neutral and Acid Extractables	8270
Organophosphorus Pesticides	8140
Organochlorine Pesticide and PCB's by Gas Chromatography	8080
BTEX	8020
Halogenated Purgeable Organics	8010

# METHODOLOGY SUMMARY

## INDUCTIVELY COUPLED PLASMA (ICP):

### REFERENCE 1

### REFERENCE 2

Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010

## FURNACE AA:

Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
Thallium	279.2	7841
Tin	282.2	
Vanadium	286.2	7911
Mercury	245.1	7470/7471

## ICAP:

Priority Pollutants	200.7	6010/7060/ 7470/7740
TAL Metals	200.7	6010/7060/ 7470/7740
RCRA Metals	200.7	6010/7060/ 7470/7740

00015

# METHODOLOGY SUMMARY

## ADDITIONAL INORGANIC PARAMETERS:

## REFERENCE 1

## REFERENCE 2

Biochemical Oxygen Demand	405.1	
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance		9050
Odor	140.1	
pH	150.1	
pH		9045/9040/9041
TDS	160.1	
TSS	160.2	
TS	160.3	
Hardness	130.1	
Temperature	170.1	
Turbidity	180.1	
Acidity	305.1	
Alkalinity	310.1	
Ammonia	350.2/350.3	
Chloride	325.3	
Chloride		9252
Residual Chlorine	330.2	
COD	410.3/410.4	
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Grease		9070/9071
Fluoride	340.2	
TKN	351.2	
NO2/NO3	353.2	9200
D.O	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
Silica	370.1	
Sulfate	375.2/375.4	9038
Sulfide	376.1	9030
Surfactants	425.1	
TOC	415.1	9060
TOX		9020

## MISCELLANEOUS ANALYSIS:

Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapter 8.3
Paint Filter Liquid Test	9095
Toxicity Characteristic Leaching Procedure (TCLP)	(REF 4)
Cation Exchange Capacity of Soils	9080

METHODOLOGY SUMMARY

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REFERENCE 6

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Total Coliform	909A
Fecal Coliform	9096
Fecal Streptococcus Coliform	910B
Standard Plate Count	907
Hexavalent Chromium	312B
Carbonaceous BOD	507

00017

## METHODOLOGY SUMMARY

### REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

**NARRATIVE DISCUSSION**  
**VOLATILES - 22745**  
=====

INTRODUCTION

This narrative covers the analysis of three (3) samples in accordance with the protocols based on SW846 Method 8240.

HOLDING TIMES

The analytical holding time for this analysis was met.

CALIBRATIONS

All required minimum RRFs and maximum % RSD initial calibration requirements have been met in accordance with the Method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the Method.

METHOD BLANK

The method blank associated with these sample met all method requirements.

SURROGATES

All surrogate recoveries met QC criteria.

MATRIX SPIKES

Matrix Spikes were not designated to be performed on any of the samples covered by this report.

Batched QC is being supplied. Please note that non site specific QC may demonstrate differing matrix affects than the samples contained in this login. The applicable form 3 is, therefore, being supplied.

INTERNAL STANDARDS

All Internal Standard area responses and retention times fell within an acceptable ranges.

SAMPLE COMMENTS

No analytical problems were encountered.

00011

NARRATIVE DISCUSSION  
SEMIVOLATILES - 22745

SDG NO. JEFF3

INTRODUCTION

This narrative covers the analysis of twelve (12) samples in accordance with protocols based on SW-846 Method 8270.

HOLDING TIMES

The extraction and analytical holding times for this analysis were met.

CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

METHOD BLANKS

No target analytes were detected in method blank SBLK39.

SURROGATES

All samples met surrogate QC criteria.

MATRIX SPIKES

Sample A-1-2B was utilized in an MS/MSD series. Six (6) of twenty two (22) spike recoveries and five (5) of eleven (11) RPD values fell above advisory QC limits.

INTERNAL STANDARDS

All area responses and retention times fell within an acceptable range.

SAMPLE COMMENTS

No analytical problems were encountered.

00012

NARRATIVE DISCUSSION  
GC GAS - 22745

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Surrogates

All recoveries met QC criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample A-1-2B was utilized for the MS/MSD.

Method Blanks

No target compounds were detected in VBLK51 or VBLK52.

Calibrations

The initial and continuing calibrations passed QC criteria.

Samples

All samples were analyzed as per a modified SW-846 Method 8015. No further analytical problems were encountered.

c:\wp51\cns\ac

00013

NARRATIVE DISCUSSION  
GC FUEL - 22745

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Surrogates

The recovery of Naphthalene was below the advisory QC limits in samples A-1-1B and A-2-2B. Both samples were reextracted outside holding time and the recoveries met QC criteria. All other recoveries met QC criteria.

Matrix Spike / Matrix Spike Duplicate (MS/MSD)

Sample A-1-2B was utilized for MS/MSD analysis.

Method Blanks

No target compounds were detected in FBLK20 or FBLK24.

Calibrations

The initial and continuing calibrations passed QC criteria.

Samples

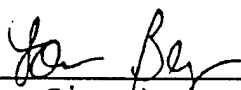
All samples were analyzed as per a modified SW-846 Method 8015. Sample B-4-1B exhibited a peak pattern which did not match that of #2 Fuel Oil. The sample is being quantitated "as #2 Fuel Oil". No further analytical problems were encountered.

c:\wp51\cns\ac

00014

# nytest environmental<sub>inc</sub>

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.

  
\_\_\_\_\_  
Remo Gigante  
Exec. Vice President

00015

# METHODOLOGY SUMMARY

AQUEOUS METHODOLOGIES:	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630/ 3640/3660		
Organochlorine Pesticide and PCB's by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1

## NON-AQUEOUS METHODOLOGIES:

BNA, Pesticides/PCB's Extraction	3550
AA/ICP Sample Preparation	3050
Furnace Sample Preparation	3020/3030/3050
Mercury Sample Preparation	7471
Clean-Up	3610/3620/3630/ 3640/3660

## GC, Gas Chromatography/Mass Spectrometry:

Purgeable Organics	8240/8021
Base/Neutral and Acid Extractables	8270
Organophosphorus Pesticides	8140
Organochlorine Pesticide and PCB's by Gas Chromatography	8080
BTEX	8020
Halogenated Purgeable Organics	8010

00016

# METHODOLOGY SUMMARY

## INDUCTIVELY COUPLED PLASMA (ICP):

### REFERENCE 1

### REFERENCE 2

Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010

## FURNACE AA:

Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
Thallium	279.2	7841
Tin	282.2	
Vanadium	286.2	7911
Mercury	245.1	7470/7471

## ICAP:

Priority Pollutants	200.7	6010/7060/ 7470/7740
TAL Metals	200.7	6010/7060/ 7470/7740
RCRA Metals	200.7	6010/7060/ 7470/7740

00017

# METHODOLOGY SUMMARY

## ADDITIONAL INORGANIC PARAMETERS:

	REFERENCE 1	REFERENCE 2
Biochemical Oxygen Demand	405.1	
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance		9050
Odor	140.1	
pH	150.1	
pH		9045/9040/9041
TDS	160.1	
TSS	160.2	
TS	160.3	
Hardness	130.1	
Temperature	170.1	
Turbidity	180.1	
Acidity	305.1	
Alkalinity	310.1	
Ammonia	350.2/350.3	
Chloride	325.3	
Chloride		9252
Residual Chlorine	330.2	
COD	410.3/410.4	
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Grease		9070/9071
Fluoride	340.2	
TKN	351.2	
NO2/NO3	353.2	9200
D.O	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
Silica	370.1	
Sulfate	375.2/375.4	9038
Sulfide	376.1	9030
Surfactants	425.1	
TOC	415.1	9060
TOX		9020

## MISCELLANEOUS ANALYSIS:

Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapter 8.3
Paint Filter Liquid Test	9095
Toxicity Characteristic Leaching Procedure (TCLP)	(REF 4)
Cation Exchange Capacity of Soils	9080

00018

METHODOLOGY SUMMARY

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REFERENCE 6

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Total Coliform	909A
Fecal Coliform	9096
Fecal Streptococcus Coliform	910B
Standard Plate Count	907
Hexavalent Chromium	312B
Carbonaceous BOD	507

## METHODOLOGY SUMMARY

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### REFERENCES:

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- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

Method Qualifiers for Organic Non-CLP Methodologies

Q Qualifier - Specified entries and their meanings as follows:

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit is corrected for dilutions and for the moisture content for soil samples. If a sample extract can not be concentrated to the protocol - specific volume, this fact is also accounted for in reporting the sample quantitation limit. The number is the minimum detected limits for the sample.
- J - Indicates an estimated volume. The flag is used either when estimating concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N - Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- B - This flag is used when the analyte is found in the analyte is found in the associated blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound.
- E - This flag identifies compounds whose concentrations exceeded the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- A - This flag indicates that a TIC is a suspected aldol condensation product.

## Method Qualifiers for Inorganics

FORM I-IN includes fields for three types of results qualifiers. These qualifiers must be completed as follows:

\* C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.

\* Q Qualifier -- Specified entries and their meanings are as follows :

E - The reported value is estimated because of the presence of interference.

M - Duplicate precision not met ( CV > 20%).

N - Spiked sample recovery not within control limits.

S - The reported value was determined by Method of Standard Addition (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

\* - Duplicate analysis not within control limits.

+ - Correlation Coefficient for MSA is less than 0.995.

Entering "S", "W" or "+" is mutually exclusive.

\* M (Method) qualifier - enter:

- "P" for ICP

- "A" for Flame AA

- "F" for Furnace AA

- "CV" for Cold Vapor AA

- "AV" for Automated Cold Vapor AA

- "AS" for Semi-Automated Spectrophotometric

- "C" for Manual Spectrophotometric

- "T" for Titrimetric

- "NR" if the analyte is not required to be analyzed.

GC/MS Data

00026

Volatile Data

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271407

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P2342.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 16

Data Analyzed: 12/17/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	4	J
67-64-1-----	Acetone	9	J
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00028

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271408

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P2360.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 33

Data Analyzed: 12/19/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	11	JB
67-64-1-----	Acetone	6	J
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Dibromochloromethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	15	U
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
591-78-6-----	Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-88-3-----	Toluene	15	U
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylene (total)	15	U
108-05-4-----	Vinyl Acetate	15	U

00029

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271409

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P2344.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 27

Data Analyzed: 12/17/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	5	J
67-64-1-----	Acetone	14	U
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U
108-05-4-----	Vinyl Acetate	14	U

00030

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271410

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P2345.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 24

Data Analyzed: 12/17/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	5	J
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U
108-05-4-----	Vinyl Acetate	13	U

00031

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271801

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0650.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 21

Data Analyzed: 12/19/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	14	B
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U
108-05-4-----	Vinyl Acetate	13	U

00032

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271802

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0651.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20

Data Analyzed: 12/19/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	11	JB
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	2	J
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00033

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271803

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0652.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20

Data Analyzed: 12/19/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	12	JB
67-64-1	-----Acetone	12	U
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U
108-05-4	-----Vinyl Acetate	12	U

00034

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271804

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0653.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 18

Data Analyzed: 12/19/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

3  
CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	32	B
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00035

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271805

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0690.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	19	B
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00036

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271806

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0687.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 11

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	9	JB
67-64-1	Acetone	46	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U
108-05-4	Vinyl Acetate	11	U

00037

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271807

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0688.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 12

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	6	JB
67-64-1	-----Acetone	10	JB
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U
108-05-4	-----Vinyl Acetate	11	U

00038

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271808

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0689.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 28

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	14	U
74-83-9	-----Bromomethane	14	U
75-01-4	-----Vinyl Chloride	14	U
75-00-3	-----Chloroethane	14	U
75-09-2	-----Methylene Chloride	55	B
67-64-1	-----Acetone	14	U
75-15-0	-----Carbon Disulfide	14	U
75-35-4	-----1,1-Dichloroethene	14	U
75-34-3	-----1,1-Dichloroethane	14	U
540-59-0	-----1,2-Dichloroethene (total)	14	U
67-66-3	-----Chloroform	14	U
107-06-2	-----1,2-Dichloroethane	14	U
78-93-3	-----2-Butanone	14	U
71-55-6	-----1,1,1-Trichloroethane	14	U
56-23-5	-----Carbon Tetrachloride	14	U
75-27-4	-----Bromodichloromethane	14	U
78-87-5	-----1,2-Dichloropropane	14	U
10061-01-5	-----cis-1,3-Dichloropropene	14	U
79-01-6	-----Trichloroethene	14	U
124-48-1	-----Dibromochloromethane	14	U
79-00-5	-----1,1,2-Trichloroethane	14	U
71-43-2	-----Benzene	14	U
10061-02-6	-----trans-1,3-Dichloropropene	14	U
75-25-2	-----Bromoform	14	U
108-10-1	-----4-Methyl-2-Pentanone	14	U
591-78-6	-----2-Hexanone	14	U
127-18-4	-----Tetrachloroethene	14	U
79-34-5	-----1,1,2,2-Tetrachloroethane	14	U
108-88-3	-----Toluene	14	U
108-90-7	-----Chlorobenzene	14	U
100-41-4	-----Ethylbenzene	14	U
100-42-5	-----Styrene	14	U
1330-20-7	-----Xylene (total)	14	U
108-05-4	-----Vinyl Acetate	14	U

00039

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271809

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0691.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	51	B
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00040

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273101

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0694.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 9

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	38	B
67-64-1-----	Acetone	11	U
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U
108-05-4-----	Vinyl Acetate	11	U

00023

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273102

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0695.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 24

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	53	B
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U
108-05-4-----	Vinyl Acetate	13	U

00026

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273103

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0696.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 24

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	54	B
67-64-1-----	Acetone	6	JB
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U
108-05-4-----	Vinyl Acetate	13	U

00029

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273104

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0697.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 19

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	50	B
67-64-1-----	Acetone	7	JB
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00032

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273105

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0698.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 26

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	55	B
67-64-1-----	Acetone	14	U
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U
108-05-4-----	Vinyl Acetate	14	U

00035

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273108

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0701.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 30

Data Analyzed: 12/22/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	58	B
67-64-1-----	Acetone	5	JB
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U
108-05-4-----	Vinyl Acetate	14	U

00038

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273109

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0702.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 15

Data Analyzed: 12/22/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	46	B
67-64-1-----	Acetone	2	JB
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00041

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273110

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0729.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 15

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	3	JB
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

00044

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273111

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0730.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 21

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3	-----Chloromethane	13	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	13	U
75-09-2	-----Methylene Chloride	4	JB
67-64-1	-----Acetone	13	U
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	13	U
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	13	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	13	U
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	13	U
108-10-1	-----4-Methyl-2-Pentanone	13	U
591-78-6	-----2-Hexanone	13	U
127-18-4	-----Tetrachloroethene	13	U
79-34-5	-----1,1,2,2-Tetrachloroethane	13	U
108-88-3	-----Toluene	13	U
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	13	U
100-42-5	-----Styrene	13	U
1330-20-7	-----Xylene (total)	13	U
108-05-4	-----Vinyl Acetate	13	U

00047

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VELKN31

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: VELKN31

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0686.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. 0

Data Analyzed: 12/21/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	2	J
67-64-1-----	Acetone	6	J
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U
108-05-4-----	Vinyl Acetate	10	U

00050

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN33

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKN33

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0728.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. 0

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	2	J
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U
108-05-4-----	Vinyl Acetate	10	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274501

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0731.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 17

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	4	JB
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U
108-05-4-----	Vinyl Acetate	12	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274502

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0734.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 26

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	5	JB
67-64-1-----	Acetone	14	U
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Dibromochloromethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-Pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-88-3-----	Toluene	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylene (total)	14	U
108-05-4-----	Vinyl Acetate	14	U

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274503

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0733.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	4	JB
67-64-1	-----Acetone	12	U
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U
108-05-4	-----Vinyl Acetate	12	U

00031

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN33

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKN33

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N0728.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. 0

Data Analyzed: 12/23/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	2	J
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U
108-05-4-----	Vinyl Acetate	10	U

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SEMIVOLATILE DATA

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1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1-1B

Lab Name: NYTEST ENV INC Contract: 9421444

Lab Code: NYTEST Case No.: 22714 SAS No.: SDG No.: JEFF1

Matrix: (soil/water) SOIL Lab Sample ID: 2271407

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2341.D

Level: (low/med) LOW Date Received: 12/10/94

% Moisture: not dec. 16 dec. Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl) Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
111-91-1	bis(2-Chloroethoxy) methane	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	400	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271407

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2341.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 16 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	110	J
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	230	J
129-00-0-----	Pyrene	200	J
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	790	U
56-55-3-----	Benzo(a)anthracene	110	J
218-01-9-----	Chrysene	130	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	50	J
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	68	J
207-08-9-----	Benzo(k)fluoranthene	46	J
50-32-8-----	Benzo(a)pyrene	47	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271408

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2342.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 33 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----Phenol	2500	U
111-44-4-----bis(2-Chloroethy <sup>l</sup> ) Ether	2500	U
95-57-8-----2-Chlorophenol	2500	U
541-73-1-----1,3-Dichlorobenzene	2500	U
106-46-7-----1,4-Dichlorobenzene	2500	U
95-50-1-----1,2-Dichlorobenzene	2500	U
95-48-7-----2-Methylphenol	2500	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	2500	U
106-44-5-----4-Methylphenol	2500	U
621-64-7-----N-Nitroso-di-n-propylamine	2500	U
67-72-1-----Hexachloroethane	2500	U
98-95-3-----Nitrobenzene	2500	U
78-59-1-----Isophorone	2500	U
88-75-5-----2-Nitrophenol	2500	U
105-67-9-----2,4-Dimethylphenol	2500	U
120-83-2-----2,4-Dichlorophenol	2500	U
120-82-1-----1,2,4-Trichlorobenzene	2500	U
91-20-3-----Naphthalene	2500	U
106-47-8-----4-Chloroaniline	2500	U
87-68-3-----Hexachlorobutadiene	2500	U
111-91-1-----bis(2-Chloroethoxy)methane	2500	U
59-50-7-----4-Chloro-3-Methylphenol	2500	U
91-57-6-----2-Methylnaphthalene	2500	U
77-47-4-----Hexachlorocyclopentadiene	2500	U
88-06-2-----2,4,6-Trichlorophenol	2500	U
95-95-4-----2,4,5-Trichlorophenol	12000	U
91-58-7-----2-Chloronaphthalene	2500	U
88-74-4-----2-Nitroaniline	12000	U
131-11-3-----Dimethylphthalate	2500	U
208-96-8-----Acenaphthylene	2500	U
606-20-2-----2,6-Dinitrotoluene	2500	U
99-09-2-----3-Nitroaniline	12000	U
83-32-9-----Acenaphthene	2500	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1SED

Lab Name: NYTEST ENV INC Contract: 9421444

Lab Code: NYTEST Case No.: 22714 SAS No.: SDG No.: JEFF1

Matrix: (soil/water) SOIL Lab Sample ID: 2271408

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R2342.D

Level: (low/med) LOW Date Received: 12/10/94

% Moisture: not dec. 33 dec. Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	12000	U
100-02-7-----	4-Nitrophenol	12000	U
132-64-9-----	Dibenzofuran	2500	U
121-14-2-----	2,4-Dinitrotoluene	2500	U
84-66-2-----	Diethylphthalate	2500	U
7005-72-3-----	4-Chlorophenyl-phenylether	2500	U
86-73-7-----	Fluorene	2500	U
100-01-6-----	4-Nitroaniline	12000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	12000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	2500	U
101-55-3-----	4-Bromophenyl-phenylether	2500	U
118-74-1-----	Hexachlorobenzene	2500	U
87-86-5-----	Pentachlorophenol	12000	U
85-01-8-----	Phenanthrene	2500	U
120-12-7-----	Anthracene	2500	U
86-74-8-----	Carbazole	2500	U
84-74-2-----	Di-n-butylphthalate	2500	U
206-44-0-----	Fluoranthene	380	J
129-00-0-----	Pyrene	380	J
85-68-7-----	Butylbenzylphthalate	2500	U
91-94-1-----	3,3'-Dichlorobenzidine	5000	U
56-55-3-----	Benzo(a)anthracene	2500	U
218-01-9-----	Chrysene	390	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	600	J
117-84-0-----	Di-n-octylphthalate	2500	U
205-99-2-----	Benzo(b)fluoranthene	300	J
207-08-9-----	Benzo(k)fluoranthene	260	J
50-32-8-----	Benzo(a)pyrene	2500	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	2500	U
53-70-3-----	Dibenz(a,h)anthracene	2500	U
191-24-2-----	Benzo(g,h,i)perylene	2500	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271801

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2346.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271801

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2346.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	840	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	120	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-2B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22714    SAS No.:                      SDG No.: JEFF1

Matrix: (soil/water) SOIL                      Lab Sample ID: 2271802

Sample wt/vol:            30.0 (g/mL) G                      Lab File ID:    R2347.D

Level:    (low/med)    LOW                      Date Received: 12/13/94

% Moisture: not dec.    20    dec.                      Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC                      Date Analyzed: 01/05/95

GPC Cleanup:    (Y/N) N    :    pH: 7.0                      Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

108-95-2-----Phenol	420	U
111-44-4-----bis(2-Chloroethyl) Ether	420	U
95-57-8-----2-Chlorophenol	420	U
541-73-1-----1,3-Dichlorobenzene	420	U
106-46-7-----1,4-Dichlorobenzene	420	U
95-50-1-----1,2-Dichlorobenzene	420	U
95-48-7-----2-Methylphenol	420	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----4-Methylphenol	420	U
621-64-7-----N-Nitroso-di-n-propylamine	420	U
67-72-1-----Hexachloroethane	420	U
98-95-3-----Nitrobenzene	420	U
78-59-1-----Isophorone	420	U
88-75-5-----2-Nitrophenol	420	U
105-67-9-----2,4-Dimethylphenol	420	U
120-83-2-----2,4-Dichlorophenol	420	U
120-82-1-----1,2,4-Trichlorobenzene	420	U
91-20-3-----Naphthalene	420	U
106-47-8-----4-Chloroaniline	420	U
87-68-3-----Hexachlorobutadiene	420	U
111-91-1-----bis(2-Chloroethoxy) methane	420	U
59-50-7-----4-Chloro-3-Methylphenol	420	U
91-57-6-----2-Methylnaphthalene	420	U
77-47-4-----Hexachlorocyclopentadiene	420	U
88-06-2-----2,4,6-Trichlorophenol	420	U
95-95-4-----2,4,5-Trichlorophenol	2100	U
91-58-7-----2-Chloronaphthalene	420	U
88-74-4-----2-Nitroaniline	2100	U
131-11-3-----Dimethylphthalate	420	U
208-96-8-----Acenaphthylene	420	U
606-20-2-----2,6-Dinitrotoluene	420	U
99-09-2-----3-Nitroaniline	2100	U
83-32-9-----Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271802

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2347.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	56	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-3B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22714    SAS No.:                      SDG No.: JEFF1

Matrix: (soil/water) SOIL                      Lab Sample ID: 2271803

Sample wt/vol:              30.0 (g/mL) G                      Lab File ID: R2348.D

Level: (low/med) LOW                      Date Received: 12/13/94

% Moisture: not dec.    26    dec.                      Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC                      Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N                      pH: 7.0                      Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

108-95-2-----Phenol	450	U
111-44-4-----bis(2-Chloroethyl) Ether	450	U
95-57-8-----2-Chlorophenol	450	U
541-73-1-----1,3-Dichlorobenzene	450	U
106-46-7-----1,4-Dichlorobenzene	450	U
95-50-1-----1,2-Dichlorobenzene	450	U
95-48-7-----2-Methylphenol	450	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----4-Methylphenol	450	U
621-64-7-----N-Nitroso-di-n-propylamine	450	U
67-72-1-----Hexachloroethane	450	U
98-95-3-----Nitrobenzene	450	U
78-59-1-----Isophorone	450	U
88-75-5-----2-Nitrophenol	450	U
105-67-9-----2,4-Dimethylphenol	450	U
120-83-2-----2,4-Dichlorophenol	450	U
120-82-1-----1,2,4-Trichlorobenzene	450	U
91-20-3-----Naphthalene	450	U
106-47-8-----4-Chloroaniline	450	U
87-68-3-----Hexachlorobutadiene	450	U
111-91-1-----bis(2-Chloroethoxy) methane	450	U
59-50-7-----4-Chloro-3-Methylphenol	450	U
91-57-6-----2-Methylnaphthalene	450	U
77-47-4-----Hexachlorocyclopentadiene	450	U
88-06-2-----2,4,6-Trichlorophenol	450	U
95-95-4-----2,4,5-Trichlorophenol	2200	U
91-58-7-----2-Chloronaphthalene	450	U
88-74-4-----2-Nitroaniline	2200	U
131-11-3-----Dimethylphthalate	450	U
208-96-8-----Acenaphthylene	450	U
606-20-2-----2,6-Dinitrotoluene	450	U
99-09-2-----3-Nitroaniline	2200	U
83-32-9-----Acenaphthene	450	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271803

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2348.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 26 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	450	U
121-14-2-----	2,4-Dinitrotoluene	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	900	U
56-55-3-----	Benzo(a)anthracene	450	U
218-01-9-----	Chrysene	450	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	450	U
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b)fluoranthene	450	U
207-08-9-----	Benzo(k)fluoranthene	450	U
50-32-8-----	Benzo(a)pyrene	450	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	450	U
53-70-3-----	Dibenz(a,h)anthracene	450	U
191-24-2-----	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271409

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2367.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 27 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	910	U
111-44-4-----	bis(2-Chloroethyl) Ether	910	U
95-57-8-----	2-Chlorophenol	910	U
541-73-1-----	1,3-Dichlorobenzene	910	U
106-46-7-----	1,4-Dichlorobenzene	910	U
95-50-1-----	1,2-Dichlorobenzene	910	U
95-48-7-----	2-Methylphenol	910	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	910	U
106-44-5-----	4-Methylphenol	910	U
621-64-7-----	N-Nitroso-di-n-propylamine	910	U
67-72-1-----	Hexachloroethane	910	U
98-95-3-----	Nitrobenzene	910	U
78-59-1-----	Isophorone	910	U
88-75-5-----	2-Nitrophenol	910	U
105-67-9-----	2,4-Dimethylphenol	910	U
120-83-2-----	2,4-Dichlorophenol	910	U
120-82-1-----	1,2,4-Trichlorobenzene	910	U
91-20-3-----	Naphthalene	910	U
106-47-8-----	4-Chloroaniline	910	U
87-68-3-----	Hexachlorobutadiene	910	U
111-91-1-----	bis(2-Chloroethoxy) methane	910	U
59-50-7-----	4-Chloro-3-Methylphenol	910	U
91-57-6-----	2-Methylnaphthalene	910	U
77-47-4-----	Hexachlorocyclopentadiene	910	U
88-06-2-----	2,4,6-Trichlorophenol	910	U
95-95-4-----	2,4,5-Trichlorophenol	4600	U
91-58-7-----	2-Chloronaphthalene	910	U
88-74-4-----	2-Nitroaniline	4600	U
131-11-3-----	Dimethylphthalate	910	U
208-96-8-----	Acenaphthylene	910	U
606-20-2-----	2,6-Dinitrotoluene	910	U
99-09-2-----	3-Nitroaniline	4600	U
83-32-9-----	Acenaphthene	910	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271409

Sample wt/vol: 30 0 (g/mL) G

Lab File ID: R2367.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 27 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	4600	U
100-02-7-----	4-Nitrophenol	4600	U
132-64-9-----	Dibenzofuran	910	U
121-14-2-----	2,4-Dinitrotoluene	910	U
84-66-2-----	Diethylphthalate	910	U
7005-72-3-----	4-Chlorophenyl-phenylether	910	U
86-73-7-----	Fluorene	910	U
100-01-6-----	4-Nitroaniline	4600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	910	U
101-55-3-----	4-Bromophenyl-phenylether	910	U
118-74-1-----	Hexachlorobenzene	910	U
87-86-5-----	Pentachlorophenol	4600	U
85-01-8-----	Phenanthrene	910	U
120-12-7-----	Anthracene	910	U
86-74-8-----	Carbazole	910	U
84-74-2-----	Di-n-butylphthalate	910	U
206-44-0-----	Fluoranthene	150	J
129-00-0-----	Pyrene	140	J
85-68-7-----	Butylbenzylphthalate	910	U
91-94-1-----	3,3'-Dichlorobenzidine	1800	U
56-55-3-----	Benzo(a)anthracene	910	U
218-01-9-----	Chrysene	110	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	910	U
117-84-0-----	Di-n-octylphthalate	910	U
205-99-2-----	Benzo(b)fluoranthene	910	U
207-08-9-----	Benzo(k)fluoranthene	910	U
50-32-8-----	Benzo(a)pyrene	910	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	910	U
53-70-3-----	Dibenz(a,h)anthracene	910	U
191-24-2-----	Benzo(g,h,i)perylene	910	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

C-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271804

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2349.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 18 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl) Ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
111-91-1-----	bis(2-Chloroethoxy) methane	410	U
59-50-7-----	4-Chloro-3-Methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	410	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271804

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2349.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 18 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	810	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	410	U
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271805

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2368.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271805

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2368.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	420	U
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271410

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2344.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 24 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	440	U
111-44-4-----	bis(2-Chloroethyl) Ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-di-n-propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethylphenol	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
87-68-3-----	Hexachlorobutadiene	440	U
111-91-1-----	bis(2-Chloroethoxy) methane	440	U
59-50-7-----	4-Chloro-3-Methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	2200	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethylphthalate	440	U
208-96-8-----	Acenaphthylene	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	440	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3SED

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271410

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2344.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 24 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	440	U
121-14-2-----	2,4-Dinitrotoluene	440	U
84-66-2-----	Diethylphthalate	440	U
7005-72-3-----	4-Chlorophenyl-phenylether	440	U
86-73-7-----	Fluorene	440	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	440	U
101-55-3-----	4-Bromophenyl-phenylether	440	U
118-74-1-----	Hexachlorobenzene	440	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	440	U
120-12-7-----	Anthracene	440	U
86-74-8-----	Carbazole	440	U
84-74-2-----	Di-n-butylphthalate	440	U
206-44-0-----	Fluoranthene	120	J
129-00-0-----	Pyrene	120	J
85-68-7-----	Butylbenzylphthalate	440	U
91-94-1-----	3,3'-Dichlorobenzidine	880	U
56-55-3-----	Benzo(a)anthracene	100	J
218-01-9-----	Chrysene	150	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	440	U
117-84-0-----	Di-n-octylphthalate	440	U
205-99-2-----	Benzo(b)fluoranthene	110	J
207-08-9-----	Benzo(k)fluoranthene	64	J
50-32-8-----	Benzo(a)pyrene	65	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	440	U
53-70-3-----	Dibenz(a,h)anthracene	440	U
191-24-2-----	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271806

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2369.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 11 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	370	U
111-44-4-----	bis(2-Chloroethyl) Ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1-----	1,3-Dichlorobenzene	370	U
106-46-7-----	1,4-Dichlorobenzene	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5-----	4-Methylphenol	370	U
621-64-7-----	N-Nitroso-di-n-propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9-----	2,4-Dimethylphenol	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	370	U
106-47-8-----	4-Chloroaniline	370	U
87-68-3-----	Hexachlorobutadiene	370	U
111-91-1-----	bis(2-Chloroethoxy) methane	370	U
59-50-7-----	4-Chloro-3-Methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	370	U
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U
99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	370	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271806

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2369.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 11 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3-----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	370	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenyl-phenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	370	U
120-12-7-----	Anthracene	370	U
86-74-8-----	Carbazole	370	U
84-74-2-----	Di-n-butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Benzylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	750	U
56-55-3-----	Benzo(a)anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	53	J
117-84-0-----	Di-n-octylphthalate	370	U
205-99-2-----	Benzo(b)fluoranthene	370	U
207-08-9-----	Benzo(k)fluoranthene	370	U
50-32-8-----	Benzo(a)pyrene	370	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	Dibenz(a,h)anthracene	370	U
191-24-2-----	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271807

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2370.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 12 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-n-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
111-91-1-----	bis(2-Chloroethoxy) methane	380	U
59-50-7-----	4-Chloro-3-Methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	380	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271807

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2370.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 12 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	380	U
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-butylphthalate	380	U
206-44-0-----	Fluoranthene	380	U
129-00-0-----	Pyrene	380	U
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	760	U
56-55-3-----	Benzo(a)anthracene	380	U
218-01-9-----	Chrysene	380	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	380	U
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo(b)fluoranthene	380	U
207-08-9-----	Benzo(k)fluoranthene	380	U
50-32-8-----	Benzo(a)pyrene	380	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	380	U
53-70-3-----	Dibenz(a,h)anthracene	380	U
191-24-2-----	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5-1B

Lab Name: NYTEST ENV INC      Contract: 9421444

Lab Code: NYTEST      Case No.: 22714      SAS No.:      SDG No.: JEFF1

Matrix: (soil/water) SOIL      Lab Sample ID: 2271809

Sample wt/vol:      30.0 (g/mL) G      Lab File ID: R2372.D

Level: (low/med) LOW      Date Received: 12/13/94

% Moisture: not dec.      20      dec.      Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC      Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N      pH: 7.0      Dilution Factor: 1.0

CAS NO.      COMPOUND      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG      Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5-1B

Lab Name: NYTEST ENV INC

Contract. 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271809

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2372.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	420	U
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indenc(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271808

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2371.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 28 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----Phenol	460	U
111-44-4-----bis(2-Chloroethyl) Ether	460	U
95-57-8-----2-Chlorophenol	460	U
541-73-1-----1,3-Dichlorobenzene	460	U
106-46-7-----1,4-Dichlorobenzene	460	U
95-50-1-----1,2-Dichlorobenzene	460	U
95-48-7-----2-Methylphenol	460	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	460	U
106-44-5-----4-Methylphenol	460	U
621-64-7-----N-Nitroso-di-n-propylamine	460	U
67-72-1-----Hexachloroethane	460	U
98-95-3-----Nitrobenzene	460	U
78-59-1-----Isophorone	460	U
88-75-5-----2-Nitrophenol	460	U
105-67-9-----2,4-Dimethylphenol	460	U
120-83-2-----2,4-Dichlorophenol	460	U
120-82-1-----1,2,4-Trichlorobenzene	460	U
91-20-3-----Naphthalene	460	U
106-47-8-----4-Chloroaniline	460	U
87-68-3-----Hexachlorobutadiene	460	U
111-91-1-----bis(2-Chloroethoxy)methane	460	U
59-50-7-----4-Chloro-3-Methylphenol	460	U
91-57-6-----2-Methylnaphthalene	460	U
77-47-4-----Hexachlorocyclopentadiene	460	U
88-06-2-----2,4,6-Trichlorophenol	460	U
95-95-4-----2,4,5-Trichlorophenol	2300	U
91-58-7-----2-Chloronaphthalene	460	U
88-74-4-----2-Nitroaniline	2300	U
131-11-3-----Dimethylphthalate	460	U
208-96-8-----Acenaphthylene	460	U
606-20-2-----2,6-Dinitrotoluene	460	U
99-09-2-----3-Nitroaniline	2300	U
83-32-9-----Acenaphthene	460	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271808

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2371.D

Level: (low/med) LOW

Date Received: 12/13/94

% Moisture: not dec. 28 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	2300	U
132-64-9-----	Dibenzofuran	460	U
121-14-2-----	2,4-Dinitrotoluene	460	U
84-66-2-----	Diethylphthalate	460	U
7005-72-3-----	4-Chlorophenyl-phenylether	460	U
86-73-7-----	Fluorene	460	U
100-01-6-----	4-Nitroaniline	2300	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2300	U
86-30-6-----	N-Nitrosodiphenylamine (1)	460	U
101-55-3-----	4-Bromophenyl-phenylether	460	U
118-74-1-----	Hexachlorobenzene	460	U
87-86-5-----	Pentachlorophenol	2300	U
85-01-8-----	Phenanthrene	460	U
120-12-7-----	Anthracene	460	U
86-74-8-----	Carbazole	460	U
84-74-2-----	Di-n-butylphthalate	460	U
206-44-0-----	Fluoranthene	460	U
129-00-0-----	Pyrene	460	U
85-68-7-----	Butylbenzylphthalate	460	U
91-94-1-----	3,3'-Dichlorobenzidine	920	U
56-55-3-----	Benzo(a)anthracene	460	U
218-01-9-----	Chrysene	460	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	460	U
117-84-0-----	Di-n-octylphthalate	460	U
205-99-2-----	Benzo(b)fluoranthene	460	U
207-08-9-----	Benzo(k)fluoranthene	460	U
50-32-8-----	Benzo(a)pyrene	460	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	460	U
53-70-3-----	Dibenz(a,h)anthracene	460	U
191-24-2-----	Benzo(g,h,i)perylene	460	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271401

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2314.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 19 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/04/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl) Ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
111-91-1-----	bis(2-Chloroethoxy) methane	410	U
59-50-7-----	4-Chloro-3-Methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	410	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271401

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2314.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 19 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/04/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	820	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	410	U
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271402

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2315.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 22 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/04/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-di-n-propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
111-91-1-----	bis(2-Chloroethoxy) methane	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	430	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271402

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2315.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 22 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/04/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
56-55-3-----	Benzo(a) anthracene	430	U
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	58	J
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b) fluoranthene	430	U
207-08-9-----	Benzo(k) fluoranthene	430	U
50-32-8-----	Benzo(a) pyrene	430	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	430	U
53-70-3-----	Dibenz(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-3B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22714    SAS No.:                      SDG No.: JEFF1

Matrix: (soil/water) SOIL                      Lab Sample ID: 2271403

Sample wt/vol:                      30.0 (g/mL) G                      Lab File ID: R2337.D

Level:    (low/med)    LOW                      Date Received: 12/10/94

% Moisture: not dec.    32    dec.                      Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC                      Date Analyzed: 01/05/95

GPC Cleanup:    (Y/N) N    pH: 7.0                      Dilution Factor: 1.0

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

108-95-2-----	Phenol	490	U
111-44-4-----	bis(2-Chloroethyl) Ether	490	U
95-57-8-----	2-Chlorophenol	490	U
541-73-1-----	1,3-Dichlorobenzene	490	U
106-46-7-----	1,4-Dichlorobenzene	490	U
95-50-1-----	1,2-Dichlorobenzene	490	U
95-48-7-----	2-Methylphenol	490	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	490	U
106-44-5-----	4-Methylphenol	490	U
621-64-7-----	N-Nitroso-di-n-propylamine	490	U
67-72-1-----	Hexachloroethane	490	U
98-95-3-----	Nitrobenzene	490	U
78-59-1-----	Isophorone	490	U
88-75-5-----	2-Nitrophenol	490	U
105-67-9-----	2,4-Dimethylphenol	490	U
120-83-2-----	2,4-Dichlorophenol	490	U
120-82-1-----	1,2,4-Trichlorobenzene	490	U
91-20-3-----	Naphthalene	490	U
106-47-8-----	4-Chloroaniline	490	U
87-68-3-----	Hexachlorobutadiene	490	U
111-91-1-----	bis(2-Chloroethoxy) methane	490	U
59-50-7-----	4-Chloro-3-Methylphenol	490	U
91-57-6-----	2-Methylnaphthalene	490	U
77-47-4-----	Hexachlorocyclopentadiene	490	U
88-06-2-----	2,4,6-Trichlorophenol	490	U
95-95-4-----	2,4,5-Trichlorophenol	2400	U
91-58-7-----	2-Chloronaphthalene	490	U
88-74-4-----	2-Nitroaniline	2400	U
131-11-3-----	Dimethylphthalate	490	U
208-96-8-----	Acenaphthylene	490	U
606-20-2-----	2,6-Dinitrotoluene	490	U
99-09-2-----	3-Nitroaniline	2400	U
83-32-9-----	Acenaphthene	490	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271403

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2337.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 32 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	490	U
121-14-2-----	2,4-Dinitrotoluene	490	U
84-66-2-----	Diethylphthalate	490	U
7005-72-3-----	4-Chlorophenyl-phenylether	490	U
86-73-7-----	Fluorene	490	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	490	U
101-55-3-----	4-Bromophenyl-phenylether	490	U
118-74-1-----	Hexachlorobenzene	490	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	490	U
120-12-7-----	Anthracene	490	U
86-74-8-----	Carbazole	490	U
84-74-2-----	Di-n-butylphthalate	490	U
206-44-0-----	Fluoranthene	490	U
129-00-0-----	Pyrene	490	U
85-68-7-----	Butylbenzylphthalate	490	U
91-94-1-----	3,3'-Dichlorobenzidine	980	U
56-55-3-----	Benzo(a)anthracene	490	U
218-01-9-----	Chrysene	490	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	53	J
117-84-0-----	Di-n-octylphthalate	490	U
205-99-2-----	Benzo(b)fluoranthene	490	U
207-08-9-----	Benzo(k)fluoranthene	490	U
50-32-8-----	Benzo(a)pyrene	490	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	490	U
53-70-3-----	Dibenz(a,h)anthracene	490	U
191-24-2-----	Benzo(g,h,i)perylene	490	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271404

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2338.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 22 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N - pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-di-n-propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
111-91-1-----	bis(2-Chloroethoxy) methane	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	430	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271404

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2338.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 22 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N = pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
56-55-3-----	Benzo(a)anthracene	430	U
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	430	U
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b)fluoranthene	430	U
207-08-9-----	Benzo(k)fluoranthene	430	U
50-32-8-----	Benzo(a)pyrene	430	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	430	U
53-70-3-----	Dibenz(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271405

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2339.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271405

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2339.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	840	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	170	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271406

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2340.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 32 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N : pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPCUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----Phenol	490	U
111-44-4-----bis(2-Chloroethyl) Ether	490	U
95-57-8-----2-Chlorophenol	490	U
541-73-1-----1,3-Dichlorobenzene	490	U
106-46-7-----1,4-Dichlorobenzene	490	U
95-50-1-----1,2-Dichlorobenzene	490	U
95-48-7-----2-Methylphenol	490	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	490	U
106-44-5-----4-Methylphenol	490	U
621-64-7-----N-Nitroso-di-n-propylamine	490	U
67-72-1-----Hexachloroethane	490	U
98-95-3-----Nitrobenzene	490	U
78-59-1-----Isophorone	490	U
88-75-5-----2-Nitrophenol	490	U
105-67-9-----2,4-Dimethylphenol	490	U
120-83-2-----2,4-Dichlorophenol	490	U
120-82-1-----1,2,4-Trichlorobenzene	490	U
91-20-3-----Naphthalene	490	U
106-47-8-----4-Chloroaniline	490	U
87-68-3-----Hexachlorobutadiene	490	U
111-91-1-----bis(2-Chloroethoxy)methane	490	U
59-50-7-----4-Chloro-3-Methylphenol	490	U
91-57-6-----2-Methylnaphthalene	490	U
77-47-4-----Hexachlorocyclopentadiene	490	U
88-06-2-----2,4,6-Trichlorophenol	490	U
95-95-4-----2,4,5-Trichlorophenol	2400	U
91-58-7-----2-Chloronaphthalene	490	U
88-74-4-----2-Nitroaniline	2400	U
131-11-3-----Dimethylphthalate	490	U
208-96-8-----Acenaphthylene	490	U
606-20-2-----2,6-Dinitrotoluene	490	U
99-09-2-----3-Nitroaniline	2400	U
83-32-9-----Acenaphthene	490	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22714

SAS No.:

SDG No.: JEFF1

Matrix: (soil/water) SOIL

Lab Sample ID: 2271406

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2340.D

Level: (low/med) LOW

Date Received: 12/10/94

% Moisture: not dec. 32 dec.

Date Extracted: 12/14/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/05/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	490	U
121-14-2-----	2,4-Dinitrotoluene	490	U
84-66-2-----	Diethylphthalate	490	U
7005-72-3-----	4-Chlorophenyl-phenylether	490	U
86-73-7-----	Fluorene	490	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	490	U
101-55-3-----	4-Bromophenyl-phenylether	490	U
118-74-1-----	Hexachlorobenzene	490	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	490	U
120-12-7-----	Anthracene	490	U
86-74-8-----	Carbazole	490	U
84-74-2-----	Di-n-butylphthalate	490	U
206-44-0-----	Fluoranthene	490	U
129-00-0-----	Pyrene	490	U
85-68-7-----	Butylbenzylphthalate	490	U
91-94-1-----	3,3'-Dichlorobenzidine	980	U
56-55-3-----	Benzo(a)anthracene	490	U
218-01-9-----	Chrysene	490	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	87	J
117-84-0-----	Di-n-octylphthalate	490	U
205-99-2-----	Benzo(b)fluoranthene	490	U
207-08-9-----	Benzo(k)fluoranthene	490	U
50-32-8-----	Benzo(a)pyrene	490	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	490	U
53-70-3-----	Dibenz(a,h)anthracene	490	U
191-24-2-----	Benzo(g,h,i)perylene	490	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-1B

Lab Name: NYTEST ENV INC Contract: 9421444  
Lab Code: NYTEST Case No.: 22731 SAS No.: SDG No.: JEFF2  
Matrix: (soil/water) SOIL Lab Sample ID: 2273101  
Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2519.D  
Level: (low/med) LOW Date Received: 12/14/94  
% Moisture: not dec. 9 dec. Date Extracted: 12/18/94  
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/06/95  
GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	3700	U
111-44-4-----	bis(2-Chloroethyl) Ether	3700	U
95-57-8-----	2-Chlorophenol	3700	U
541-73-1-----	1,3-Dichlorobenzene	3700	U
106-46-7-----	1,4-Dichlorobenzene	3700	U
95-50-1-----	1,2-Dichlorobenzene	3700	U
95-48-7-----	2-Methylphenol	3700	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3700	U
106-44-5-----	4-Methylphenol	3700	U
621-64-7-----	N-Nitroso-di-n-propylamine	3700	U
67-72-1-----	Hexachloroethane	3700	U
98-95-3-----	Nitrobenzene	3700	U
78-59-1-----	Isophorone	3700	U
88-75-5-----	2-Nitrophenol	3700	U
105-67-9-----	2,4-Dimethylphenol	3700	U
120-83-2-----	2,4-Dichlorophenol	3700	U
120-82-1-----	1,2,4-Trichlorobenzene	3700	U
91-20-3-----	Naphthalene	3700	U
106-47-8-----	4-Chloroaniline	3700	U
87-68-3-----	Hexachlorobutadiene	3700	U
111-91-1-----	bis(2-Chloroethoxy) methane	3700	U
59-50-7-----	4-Chloro-3-Methylphenol	3700	U
91-57-6-----	2-Methylnaphthalene	3700	U
77-47-4-----	Hexachlorocyclopentadiene	3700	U
88-06-2-----	2,4,6-Trichlorophenol	3700	U
95-95-4-----	2,4,5-Trichlorophenol	18000	U
91-58-7-----	2-Chloronaphthalene	3700	U
88-74-4-----	2-Nitroaniline	18000	U
131-11-3-----	Dimethylphthalate	3700	U
208-96-8-----	Acenaphthylene	3700	U
606-20-2-----	2,6-Dinitrotoluene	3700	U
99-09-2-----	3-Nitroaniline	18000	U
83-32-9-----	Acenaphthene	3700	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273101

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2519.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 9 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 10.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	18000	U
100-02-7-----	4-Nitrophenol	18000	U
132-64-9-----	Dibenzofuran	3700	U
121-14-2-----	2,4-Dinitrotoluene	3700	U
84-66-2-----	Diethylphthalate	3700	U
7005-72-3-----	4-Chlorophenyl-phenylether	3700	U
86-73-7-----	Fluorene	3700	U
100-01-6-----	4-Nitroaniline	18000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	18000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3700	U
101-55-3-----	4-Bromophenyl-phenylether	3700	U
118-74-1-----	Hexachlorobenzene	3700	U
87-86-5-----	Pentachlorophenol	18000	U
85-01-8-----	Phenanthrene	3700	U
120-12-7-----	Anthracene	3700	U
86-74-8-----	Carbazole	3700	U
84-74-2-----	Di-n-butylphthalate	3700	U
206-44-0-----	Fluoranthene	3700	U
129-00-0-----	Pyrene	3700	U
85-68-7-----	Butylbenzylphthalate	3700	U
91-94-1-----	3,3'-Dichlorobenzidine	7300	U
56-55-3-----	Benzo(a)anthracene	3700	U
218-01-9-----	Chrysene	3700	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	3700	U
117-84-0-----	Di-n-octylphthalate	3700	U
205-99-2-----	Benzo(b)fluoranthene	3700	U
207-08-9-----	Benzo(k)fluoranthene	3700	U
50-32-8-----	Benzo(a)pyrene	3700	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	3700	U
53-70-3-----	Dibenz(a,h)anthracene	3700	U
191-24-2-----	Benzo(g,h,i)perylene	3700	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273102

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2520.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 24 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	440	U
111-44-4-----	bis(2-Chloroethyl) Ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-di-n-propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethylphenol	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
87-68-3-----	Hexachlorobutadiene	440	U
111-91-1-----	bis(2-Chloroethoxy) methane	440	U
59-50-7-----	4-Chloro-3-Methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	2200	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethylphthalate	440	U
208-96-8-----	Acenaphthylene	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	440	U

00074

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273102

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2520.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 24 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	440	U
121-14-2-----	2,4-Dinitrotoluene	440	U
84-66-2-----	Diethylphthalate	440	U
7005-72-3-----	4-Chlorophenyl-phenylether	440	U
86-73-7-----	Fluorene	440	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	440	U
101-55-3-----	4-Bromophenyl-phenylether	440	U
118-74-1-----	Hexachlorobenzene	440	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	440	U
120-12-7-----	Anthracene	440	U
86-74-8-----	Carbazole	440	U
84-74-2-----	Di-n-butylphthalate	440	U
206-44-0-----	Fluoranthene	440	U
129-00-0-----	Pyrene	440	U
85-68-7-----	Butylbenzylphthalate	440	U
91-94-1-----	3,3'-Dichlorobenzidine	880	U
56-55-3-----	Benzo(a)anthracene	440	U
218-01-9-----	Chrysene	440	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	66	J
117-84-0-----	Di-n-octylphthalate	440	U
205-99-2-----	Benzo(b)fluoranthene	440	U
207-08-9-----	Benzo(k)fluoranthene	440	U
50-32-8-----	Benzo(a)pyrene	440	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	440	U
53-70-3-----	Dibenz(a,h)anthracene	440	U
191-24-2-----	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

00075

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273103

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2521.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 24 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	440	U
111-44-4-----	bis(2-Chloroethyl) Ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-di-n-propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethylphenol	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
87-68-3-----	Hexachlorobutadiene	440	U
111-91-1-----	bis(2-Chloroethoxy) methane	440	U
59-50-7-----	4-Chloro-3-Methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	2200	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethylphthalate	440	U
208-96-8-----	Acenaphthylene	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	440	U

00078

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273103

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2521.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 24 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	440	U
121-14-2-----	2,4-Dinitrotoluene	440	U
84-66-2-----	Diethylphthalate	440	U
7005-72-3-----	4-Chlorophenyl-phenylether	440	U
86-73-7-----	Fluorene	440	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	440	U
101-55-3-----	4-Bromophenyl-phenylether	440	U
118-74-1-----	Hexachlorobenzene	440	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	440	U
120-12-7-----	Anthracene	440	U
86-74-8-----	Carbazole	440	U
84-74-2-----	Di-n-butylphthalate	440	U
206-44-0-----	Fluoranthene	440	U
129-00-0-----	Pyrene	440	U
85-68-7-----	Butylbenzylphthalate	440	U
91-94-1-----	3,3'-Dichlorobenzidine	880	U
56-55-3-----	Benzo(a)anthracene	440	U
218-01-9-----	Chrysene	440	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	150	J
117-84-0-----	Di-n-octylphthalate	440	U
205-99-2-----	Benzo(b)fluoranthene	440	U
207-08-9-----	Benzo(k)fluoranthene	440	U
50-32-8-----	Benzo(a)pyrene	440	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	440	U
53-70-3-----	Dibenz(a,h)anthracene	440	U
191-24-2-----	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

00079

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273104

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2522.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 19 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
108-95-2	Phenol	U
111-44-4	bis(2-Chloroethyl) Ether	U
95-57-8	2-Chlorophenol	U
541-73-1	1,3-Dichlorobenzene	U
106-46-7	1,4-Dichlorobenzene	U
95-50-1	1,2-Dichlorobenzene	U
95-48-7	2-Methylphenol	U
108-60-1	2,2'-oxybis(1-Chloropropane)	U
106-44-5	4-Methylphenol	U
621-64-7	N-Nitroso-di-n-propylamine	U
67-72-1	Hexachloroethane	U
98-95-3	Nitrobenzene	U
78-59-1	Isophorone	U
88-75-5	2-Nitrophenol	U
105-67-9	2,4-Dimethylphenol	U
120-83-2	2,4-Dichlorophenol	U
120-82-1	1,2,4-Trichlorobenzene	U
91-20-3	Naphthalene	U
106-47-8	4-Chloroaniline	U
87-68-3	Hexachlorobutadiene	U
111-91-1	bis(2-Chloroethoxy) methane	U
59-50-7	4-Chloro-3-Methylphenol	U
91-57-6	2-Methylnaphthalene	U
77-47-4	Hexachlorocyclopentadiene	U
88-06-2	2,4,6-Trichlorophenol	U
95-95-4	2,4,5-Trichlorophenol	U
91-58-7	2-Chloronaphthalene	U
88-74-4	2-Nitroaniline	U
131-11-3	Dimethylphthalate	U
208-96-8	Acenaphthylene	U
606-20-2	2,6-Dinitrotoluene	U
99-09-2	3-Nitroaniline	U
83-32-9	Acenaphthene	U

00082

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273104

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2522.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 19 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	80	J
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	820	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	120	J
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

00083

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273105

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2523.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 26 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl) Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-di-n-propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
111-91-1-----	bis(2-Chloroethoxy) methane	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	2200	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethylphthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	450	U

00086

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273105

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2523.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 26 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	450	U
121-14-2-----	2,4-Dinitrotoluene	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
85-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	900	U
56-55-3-----	Benzo(a)anthracene	450	U
218-01-9-----	Chrysene	450	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	290	J
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b)fluoranthene	450	U
207-08-9-----	Benzo(k)fluoranthene	450	U
50-32-8-----	Benzo(a)pyrene	450	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	450	U
53-70-3-----	Dibenz(a,h)anthracene	450	U
191-24-2-----	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

00087

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273108

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2526.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 30 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	480	U
111-44-4-----	bis(2-Chloroethyl) Ether	480	U
95-57-8-----	2-Chlorophenol	480	U
541-73-1-----	1,3-Dichlorobenzene	480	U
106-46-7-----	1,4-Dichlorobenzene	480	U
95-50-1-----	1,2-Dichlorobenzene	480	U
95-48-7-----	2-Methylphenol	480	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	480	U
106-44-5-----	4-Methylphenol	480	U
621-64-7-----	N-Nitroso-di-n-propylamine	480	U
67-72-1-----	Hexachloroethane	480	U
98-95-3-----	Nitrobenzene	480	U
78-59-1-----	Isophorone	480	U
88-75-5-----	2-Nitrophenol	480	U
105-67-9-----	2,4-Dimethylphenol	480	U
120-83-2-----	2,4-Dichlorophenol	480	U
120-82-1-----	1,2,4-Trichlorobenzene	480	U
91-20-3-----	Naphthalene	480	U
106-47-8-----	4-Chloroaniline	480	U
87-68-3-----	Hexachlorobutadiene	480	U
111-91-1-----	bis(2-Chloroethoxy) methane	480	U
59-50-7-----	4-Chloro-3-Methylphenol	480	U
91-57-6-----	2-Methylnaphthalene	480	U
77-47-4-----	Hexachlorocyclopentadiene	480	U
88-06-2-----	2,4,6-Trichlorophenol	480	U
95-95-4-----	2,4,5-Trichlorophenol	2400	U
91-58-7-----	2-Chloronaphthalene	480	U
88-74-4-----	2-Nitroaniline	2400	U
131-11-3-----	Dimethylphthalate	480	U
208-96-8-----	Acenaphthylene	480	U
606-20-2-----	2,6-Dinitrotoluene	480	U
99-09-2-----	3-Nitroaniline	2400	U
83-32-9-----	Acenaphthene	480	U

00030

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273108

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2526.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 30 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	480	U
121-14-2-----	2,4-Dinitrotoluene	480	U
84-66-2-----	Diethylphthalate	480	U
7005-72-3-----	4-Chlorophenyl-phenylether	480	U
86-73-7-----	Fluorene	480	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	480	U
101-55-3-----	4-Bromophenyl-phenylether	480	U
118-74-1-----	Hexachlorobenzene	480	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	480	U
120-12-7-----	Anthracene	480	U
86-74-8-----	Carbazole	480	U
84-74-2-----	Di-n-butylphthalate	480	U
206-44-0-----	Fluoranthene	480	U
129-00-0-----	Pyrene	480	U
85-68-7-----	Butylbenzylphthalate	480	U
91-94-1-----	3,3'-Dichlorobenzidine	950	U
56-55-3-----	Benzo(a)anthracene	480	U
218-01-9-----	Chrysene	480	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	180	J
117-84-0-----	Di-n-octylphthalate	480	U
205-99-2-----	Benzo(b)fluoranthene	480	U
207-08-9-----	Benzo(k)fluoranthene	480	U
50-32-8-----	Benzo(a)pyrene	480	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	480	U
53-70-3-----	Dibenz(a,h)anthracene	480	U
191-24-2-----	Benzo(g,h,i)perylene	480	U

(1) - Cannot be separated from Diphenylamine

00091

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273109

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2703.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 15 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/13/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 2.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	780	U
111-44-4-----	bis(2-Chloroethyl) Ether	780	U
95-57-8-----	2-Chlorophenol	780	U
541-73-1-----	1,3-Dichlorobenzene	780	U
106-46-7-----	1,4-Dichlorobenzene	780	U
95-50-1-----	1,2-Dichlorobenzene	780	U
95-48-7-----	2-Methylphenol	780	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	780	U
106-44-5-----	4-Methylphenol	780	U
621-64-7-----	N-Nitroso-di-n-propylamine	780	U
67-72-1-----	Hexachloroethane	780	U
98-95-3-----	Nitrobenzene	780	U
78-59-1-----	Isophorone	780	U
88-75-5-----	2-Nitrophenol	780	U
105-67-9-----	2,4-Dimethylphenol	780	U
120-83-2-----	2,4-Dichlorophenol	780	U
120-82-1-----	1,2,4-Trichlorobenzene	780	U
91-20-3-----	Naphthalene	780	U
106-47-8-----	4-Chloroaniline	780	U
87-68-3-----	Hexachlorobutadiene	780	U
111-91-1-----	bis(2-Chloroethoxy) methane	780	U
59-50-7-----	4-Chloro-3-Methylphenol	780	U
91-57-6-----	2-Methylnaphthalene	780	U
77-47-4-----	Hexachlorocyclopentadiene	780	U
88-06-2-----	2,4,6-Trichlorophenol	780	U
95-95-4-----	2,4,5-Trichlorophenol	3900	U
91-58-7-----	2-Chloronaphthalene	780	U
88-74-4-----	2-Nitroaniline	3900	U
131-11-3-----	Dimethylphthalate	780	U
208-96-8-----	Acenaphthylene	780	U
606-20-2-----	2,6-Dinitrotoluene	780	U
99-09-2-----	3-Nitroaniline	3900	U
83-32-9-----	Acenaphthene	780	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273109

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2703.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 15 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/13/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	3900	U
100-02-7-----	4-Nitrophenol	3900	U
132-64-9-----	Dibenzofuran	780	U
121-14-2-----	2,4-Dinitrotoluene	780	U
84-66-2-----	Diethylphthalate	780	U
7005-72-3-----	4-Chlorophenyl-phenylether	780	U
86-73-7-----	Fluorene	780	U
100-01-6-----	4-Nitroaniline	3900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	3900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	780	U
101-55-3-----	4-Bromophenyl-phenylether	780	U
118-74-1-----	Hexachlorobenzene	780	U
87-86-5-----	Pentachlorophenol	3900	U
85-01-8-----	Phenanthrene	620	J
120-12-7-----	Anthracene	110	J
86-74-8-----	Carbazole	780	U
84-74-2-----	Di-n-butylphthalate	780	U
206-44-0-----	Fluoranthene	900	
129-00-0-----	Pyrene	790	
85-68-7-----	Benzylbenzylphthalate	780	U
91-94-1-----	3,3'-Dichlorobenzidine	1600	U
56-55-3-----	Benzo(a)anthracene	350	J
218-01-9-----	Chrysene	400	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	780	U
117-84-0-----	Di-n-octylphthalate	780	U
205-99-2-----	Benzo(b)fluoranthene	250	J
207-08-9-----	Benzo(k)fluoranthene	190	J
50-32-8-----	Benzo(a)pyrene	220	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	130	J
53-70-3-----	Dibenz(a,h)anthracene	780	U
191-24-2-----	Benzo(g,h,i)perylene	140	J

(1) - Cannot be separated from Diphenylamine

00095

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-2B

Lab Name: NYTEST ENV INC Contract: 9421444  
Lab Code: NYTEST Case No.: 22731 SAS No.: SDG No.: JEFF2  
Matrix: (soil/water) SOIL Lab Sample ID: 2273110  
Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2528.D  
Level: (low/med) LOW Date Received: 12/14/94  
% Moisture: not dec. 15 dec. Date Extracted: 12/18/94  
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/06/95  
GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	780	U
111-44-4	bis(2-Chloroethyl) Ether	780	U
95-57-8	2-Chlorophenol	780	U
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
95-50-1	1,2-Dichlorobenzene	780	U
95-48-7	2-Methylphenol	780	U
108-60-1	2,2'-oxybis(1-Chloropropane)	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-di-n-propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	780	U
105-67-9	2,4-Dimethylphenol	780	U
120-83-2	2,4-Dichlorophenol	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
91-20-3	Naphthalene	780	U
106-47-8	4-Chloroaniline	780	U
87-68-3	Hexachlorobutadiene	780	U
111-91-1	bis(2-Chloroethoxy) methane	780	U
59-50-7	4-Chloro-3-Methylphenol	780	U
91-57-6	2-Methylnaphthalene	780	U
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	3900	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethylphthalate	780	U
208-96-8	Acenaphthylene	780	U
606-20-2	2,6-Dinitrotoluene	780	U
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	780	U

00098

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-2B

Lab Name: NYTEST ENV INC Contract: 9421444

Lab Code: NYTEST Case No.: 22731 SAS No.: SDG No.: JEFF2

Matrix: (soil/water) SOIL Lab Sample ID: 2273110

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2528.D

Level: (low/med) LOW Date Received: 12/14/94

% Moisture: not dec. 15 dec. Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	3900	U
100-02-7-----	4-Nitrophenol	3900	U
132-64-9-----	Dibenzofuran	780	U
121-14-2-----	2,4-Dinitrotoluene	780	U
84-66-2-----	Diethylphthalate	780	U
7005-72-3-----	4-Chlorophenyl-phenylether	780	U
86-73-7-----	Fluorene	780	U
100-01-6-----	4-Nitroaniline	3900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	3900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	780	U
101-55-3-----	4-Bromophenyl-phenylether	780	U
118-74-1-----	Hexachlorobenzene	780	U
87-86-5-----	Pentachlorophenol	3900	U
85-01-8-----	Phenanthrene	500	J
120-12-7-----	Anthracene	84	J
86-74-8-----	Carbazole	780	U
84-74-2-----	Di-n-butylphthalate	780	U
206-44-0-----	Fluoranthene	480	J
129-00-0-----	Pyrene	410	J
85-68-7-----	Butylbenzylphthalate	780	U
91-94-1-----	3,3'-Dichlorobenzidine	1600	U
56-55-3-----	Benzo(a)anthracene	160	J
218-01-9-----	Chrysene	170	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	260	J
117-84-0-----	Di-n-octylphthalate	780	U
205-99-2-----	Benzo(b)fluoranthene	110	J
207-08-9-----	Benzo(k)fluoranthene	780	U
50-32-8-----	Benzo(a)pyrene	98	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	780	U
53-70-3-----	Dibenz(a,h)anthracene	780	U
191-24-2-----	Benzo(g,h,i)perylene	780	U

(1) - Cannot be separated from Diphenylamine

00093

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-3B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22731    SAS No.:                      SDG No.: JEFF2

Matrix: (soil/water) SOIL                      Lab Sample ID: 2273111

Sample wt/vol:              30.0 (g/mL) G                      Lab File ID: Q2529.D

Level:    (low/med)    LOW                      Date Received: 12/14/94

% Moisture: not dec.    21    dec.                      Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC                      Date Analyzed: 01/06/95

GPC Cleanup:    (Y/N) N    pH: 7.0                      Dilution Factor: 1.0

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy)methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

00102

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22731

SAS No.:

SDG No.: JEFF2

Matrix: (soil/water) SOIL

Lab Sample ID: 2273111

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2529.D

Level: (low/med) LOW

Date Received: 12/14/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	840	U
56-55-3-----	Benzo(a) anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl) phthalate	150	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b) fluoranthene	420	U
207-08-9-----	Benzo(k) fluoranthene	420	U
50-32-8-----	Benzo(a) pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd) pyrene	420	U
53-70-3-----	Dibenz(a,h) anthracene	420	U
191-24-2-----	Benzo(g,h,i) perylene	420	U

(1) - Cannot be separated from Diphenylamine

00103

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274501

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2378.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 17 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) Ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	100	J
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
111-91-1-----	bis(2-Chloroethoxy) methane	400	U
59-50-7-----	4-Chloro-3-Methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	120	J
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	320	J

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274501

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2378.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 17 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	210	J
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	230	J
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	2500	
120-12-7-----	Anthracene	470	
86-74-8-----	Carbazole	110	J
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	2400	
129-00-0-----	Pyrene	2400	
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	910	
218-01-9-----	Chrysene	990	
117-81-7-----	bis(2-Ethylhexyl)phthalate	700	
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	J
207-08-9-----	Benzo(k)fluoranthene	420	
50-32-8-----	Benzo(a)pyrene	530	
193-39-5-----	Indeno(1,2,3-cd)pyrene	250	J
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	260	J

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274502

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2379.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 26 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl) Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-di-n-propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
111-91-1-----	bis(2-Chloroethoxy) methane	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	2200	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethylphthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	450	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274502

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2379.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 26 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	450	U
121-14-2-----	2,4-Dinitrotoluene	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	900	U
56-55-3-----	Benzo(a)anthracene	450	U
218-01-9-----	Chrysene	450	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	180	J
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b)fluoranthene	450	U
207-08-9-----	Benzo(k)fluoranthene	450	U
50-32-8-----	Benzo(a)pyrene	450	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	450	U
53-70-3-----	Dibenz(a,h)anthracene	450	U
191-24-2-----	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

00051

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274503

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2380.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

00054

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274503

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2380.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	2100 U
100-02-7-----	4-Nitrophenol	2100 U
132-64-9-----	Dibenzofuran	420 U
121-14-2-----	2,4-Dinitrotoluene	420 U
84-66-2-----	Diethylphthalate	420 U
7005-72-3-----	4-Chlorophenyl-phenylether	420 U
86-73-7-----	Fluorene	420 U
100-01-6-----	4-Nitroaniline	2100 U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100 U
86-30-6-----	N-Nitrosodiphenylamine (1)	420 U
101-55-3-----	4-Bromophenyl-phenylether	420 U
118-74-1-----	Hexachlorobenzene	420 U
87-86-5-----	Pentachlorophenol	2100 U
85-01-8-----	Phenanthrene	420 U
120-12-7-----	Anthracene	420 U
86-74-8-----	Carbazole	420 U
84-74-2-----	Di-n-butylphthalate	420 U
206-44-0-----	Fluoranthene	420 U
129-00-0-----	Pyrene	420 U
85-68-7-----	Butylbenzylphthalate	420 U
91-94-1-----	3,3'-Dichlorobenzidine	830 U
56-55-3-----	Benzo(a)anthracene	420 U
218-01-9-----	Chrysene	420 U
117-81-7-----	bis(2-Ethylhexyl)phthalate	200 J
117-84-0-----	Di-n-octylphthalate	420 U
205-99-2-----	Benzo(b)fluoranthene	420 U
207-08-9-----	Benzo(k)fluoranthene	420 U
50-32-8-----	Benzo(a)pyrene	420 U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420 U
53-70-3-----	Dibenz(a,h)anthracene	420 U
191-24-2-----	Benzo(g,h,i)perylene	420 U

00055

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-1B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22745    SAS No.:                      SDG No.: JEFF3

Matrix: (soil/water) SOIL                      Lab Sample ID: 2274504

Sample wt/vol:              30.0 (g/mL) G                      Lab File ID: R2381.D

Level:    (low/med)    LOW                      Date Received: 12/15/94

% Moisture: not dec.    20    dec.                      Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc)    SONC                      Date Analyzed: 01/06/95

GPC Cleanup:    (Y/N) N                      pH: 7.0                      Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274504

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2381.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/06/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	58	J
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	130	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

00059

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274505

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2386.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

00062

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274505

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2386.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	66	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

00063

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-3B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22745    SAS No.:                      SDG No.: JEFF3

Matrix: (soil/water) SOIL                      Lab Sample ID: 2274508

Sample wt/vol:              30.0 (g/mL) G                      Lab File ID: R2389.D

Level: (low/med) LOW                      Date Received: 12/15/94

% Moisture: not dec.    22    dec.                      Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC                      Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N                      pH: 7.0                      Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
---------	----------	-----------------------	---

108-95-2-----	Phenol	430	U
111-44-4-----	bis (2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis (1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-di-n-propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
111-91-1-----	bis (2-Chloroethoxy) methane	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	430	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274508

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2389.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 22 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
56-55-3-----	Benzo(a)anthracene	430	U
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	68	J
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b)fluoranthene	430	U
207-08-9-----	Benzo(k)fluoranthene	430	U
50-32-8-----	Benzo(a)pyrene	430	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	430	U
53-70-3-----	Dibenz(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U

00007

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274509

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2390.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 17 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) Ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
111-91-1-----	bis(2-Chloroethoxy) methane	400	U
59-50-7-----	4-Chloro-3-Methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	400	U

00070

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274509

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2390.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 17 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	56	J
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	77	J
129-00-0-----	Pyrene	70	J
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	42	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	720	
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

00071

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274510

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2391.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----Phenol	420	U
111-44-4-----bis(2-Chloroethyl) Ether	420	U
95-57-8-----2-Chlorophenol	420	U
541-73-1-----1,3-Dichlorobenzene	420	U
106-46-7-----1,4-Dichlorobenzene	420	U
95-50-1-----1,2-Dichlorobenzene	420	U
95-48-7-----2-Methylphenol	420	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----4-Methylphenol	420	U
621-64-7-----N-Nitroso-di-n-propylamine	420	U
67-72-1-----Hexachloroethane	420	U
98-95-3-----Nitrobenzene	420	U
78-59-1-----Isophorone	420	U
88-75-5-----2-Nitrophenol	420	U
105-67-9-----2,4-Dimethylphenol	420	U
120-83-2-----2,4-Dichlorophenol	420	U
120-82-1-----1,2,4-Trichlorobenzene	420	U
91-20-3-----Naphthalene	420	U
106-47-8-----4-Chloroaniline	420	U
87-68-3-----Hexachlorobutadiene	420	U
111-91-1-----bis(2-Chloroethoxy) methane	420	U
59-50-7-----4-Chloro-3-Methylphenol	420	U
91-57-6-----2-Methylnaphthalene	420	U
77-47-4-----Hexachlorocyclopentadiene	420	U
88-06-2-----2,4,6-Trichlorophenol	420	U
95-95-4-----2,4,5-Trichlorophenol	2100	U
91-58-7-----2-Chloronaphthalene	420	U
88-74-4-----2-Nitroaniline	2100	U
131-11-3-----Dimethylphthalate	420	U
208-96-8-----Acenaphthylene	420	U
606-20-2-----2,6-Dinitrotoluene	420	U
99-09-2-----3-Nitroaniline	2100	U
83-32-9-----Acenaphthene	420	U

00074

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274510

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2391.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 21 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	840	U
56-55-3-----	Benzo(a) anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	420	U
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b) fluoranthene	420	U
207-08-9-----	Benzo(k) fluoranthene	420	U
50-32-8-----	Benzo(a) pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd) pyrene	420	U
53-70-3-----	Dibenz(a,h) anthracene	420	U
191-24-2-----	Benzo(g,h,i) perylene	420	U

(1) - Cannot be separated from Diphenylamine

00075

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274511

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2392.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----Phenol	420	U
111-44-4-----bis(2-Chloroethyl) Ether	420	U
95-57-8-----2-Chlorophenol	420	U
541-73-1-----1,3-Dichlorobenzene	420	U
106-46-7-----1,4-Dichlorobenzene	420	U
95-50-1-----1,2-Dichlorobenzene	420	U
95-48-7-----2-Methylphenol	420	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----4-Methylphenol	420	U
621-64-7-----N-Nitroso-di-n-propylamine	420	U
67-72-1-----Hexachloroethane	420	U
98-95-3-----Nitrobenzene	420	U
78-59-1-----Isophorone	420	U
88-75-5-----2-Nitrophenol	420	U
105-67-9-----2,4-Dimethylphenol	420	U
120-83-2-----2,4-Dichlorophenol	420	U
120-82-1-----1,2,4-Trichlorobenzene	420	U
91-20-3-----Naphthalene	420	U
106-47-8-----4-Chloroaniline	420	U
87-68-3-----Hexachlorobutadiene	420	U
111-91-1-----bis(2-Chloroethoxy) methane	420	U
59-50-7-----4-Chloro-3-Methylphenol	420	U
91-57-6-----2-Methylnaphthalene	420	U
77-47-4-----Hexachlorocyclopentadiene	420	U
88-06-2-----2,4,6-Trichlorophenol	420	U
95-95-4-----2,4,5-Trichlorophenol	2100	U
91-58-7-----2-Chloronaphthalene	420	U
88-74-4-----2-Nitroaniline	2100	U
131-11-3-----Dimethylphthalate	420	U
208-96-8-----Acenaphthylene	420	U
606-20-2-----2,6-Dinitrotoluene	420	U
99-09-2-----3-Nitroaniline	2100	U
83-32-9-----Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274511

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2392.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	370	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-1B

Lab Name: NYTEST ENV INC                      Contract: 9421444

Lab Code: NYTEST    Case No.: 22745    SAS No.:                      SDG No.: JEFF3

Matrix: (soil/water) SOIL                      Lab Sample ID: 2274512

Sample wt/vol:              30.0 (g/mL) G                      Lab File ID: R2393.D

Level: (low/med) LOW                      Date Received: 12/15/94

% Moisture: not dec.    16    dec.                      Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC                      Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N                      pH: 7.0                      Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG                      Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) Ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
111-91-1-----	bis(2-Chloroethoxy) methane	400	U
59-50-7-----	4-Chloro-3-Methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	400	U

00082

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-1B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274512

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2393.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 16 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	78	J
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	130	J
129-00-0-----	Pyrene	130	J
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	790	U
56-55-3-----	Benzo(a) anthracene	68	J
218-01-9-----	Chrysene	80	J
117-81-7-----	bis(2-Ethylhexyl) phthalate	58	J
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b) fluoranthene	53	J
207-08-9-----	Benzo(k) fluoranthene	400	U
50-32-8-----	Benzo(a) pyrene	44	J
193-39-5-----	Indeno(1,2,3-cd) pyrene	400	U
53-70-3-----	Dibenz(a,h) anthracene	400	U
191-24-2-----	Benzo(g,h,i) perylene	400	U

(1) - Cannot be separated from Diphenylamine

00083

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274513

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2394.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
111-91-1-----	bis(2-Chloroethoxy) methane	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

00086

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-2B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274513

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2394.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	70	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

00087

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274514

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2395.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2-----Phenol	420	U
111-44-4-----bis(2-Chloroethyl) Ether	420	U
95-57-8-----2-Chlorophenol	420	U
541-73-1-----1,3-Dichlorobenzene	420	U
106-46-7-----1,4-Dichlorobenzene	420	U
95-50-1-----1,2-Dichlorobenzene	420	U
95-48-7-----2-Methylphenol	420	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----4-Methylphenol	420	U
621-64-7-----N-Nitroso-di-n-propylamine	420	U
67-72-1-----Hexachloroethane	420	U
98-95-3-----Nitrobenzene	420	U
78-59-1-----Isophorone	420	U
88-75-5-----2-Nitrophenol	420	U
105-67-9-----2,4-Dimethylphenol	420	U
120-83-2-----2,4-Dichlorophenol	420	U
120-82-1-----1,2,4-Trichlorobenzene	420	U
91-20-3-----Naphthalene	420	U
106-47-8-----4-Chloroaniline	420	U
87-68-3-----Hexachlorobutadiene	420	U
111-91-1-----bis(2-Chloroethoxy) methane	420	U
59-50-7-----4-Chloro-3-Methylphenol	420	U
91-57-6-----2-Methylnaphthalene	420	U
77-47-4-----Hexachlorocyclopentadiene	420	U
88-06-2-----2,4,6-Trichlorophenol	420	U
95-95-4-----2,4,5-Trichlorophenol	2100	U
91-58-7-----2-Chloronaphthalene	420	U
88-74-4-----2-Nitroaniline	2100	U
131-11-3-----Dimethylphthalate	420	U
208-96-8-----Acenaphthylene	420	U
606-20-2-----2,6-Dinitrotoluene	420	U
99-09-2-----3-Nitroaniline	2100	U
83-32-9-----Acenaphthene	420	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-3B

Lab Name: NYTEST ENV INC

Contract: 9421444

Lab Code: NYTEST

Case No.: 22745

SAS No.:

SDG No.: JEFF3

Matrix: (soil/water) SOIL

Lab Sample ID: 2274514

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: R2395.D

Level: (low/med) LOW

Date Received: 12/15/94

% Moisture: not dec. 20 dec.

Date Extracted: 12/18/94

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/07/95

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	830	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	160	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

00091

GC FUEL DATA

00204

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GC FUEL  
REPORT OF ANALYSIS

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Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	D-1-1B	D-1-2B	D-1-3B	D-2-1B	D-2-2B
Lab ID	2271401	2271402	2271403	2271404	2271405
Date Extracted	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
Date Analyzed	12/23/94	12/23/94	12/23/94	12/23/94	12/23/94
% Moisture	19	22	32	22	21
Dilution factor	1	1	1	1	1
#2 Fuel Oil	12 U	13 U	15 U	13 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	12 U	13 U	15 U	13 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	12 U	13 U	15 U	13 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND
Kerosene	12 U	13 U	15 U	13 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND	ND
TPH (as C20)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00205

GC FUEL  
REPORT OF ANALYSIS

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Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)	Sample Identification				
-----	-----				
Sample ID	D-2-3B	C-1-1B	C-1SED	C-2SED	C-3SED
Lab ID	2271406	2271407	2271408	2271409	2271410
Date Extracted	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
Date Analyzed	12/23/94	12/24/94	12/24/94	12/24/94	12/24/94
% Moisture	32	16	33	27	24
Dilution factor	1	1	1	1	1
#2 Fuel Oil	15 U	12 U	15 U	14 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	15 U	12 U	15 U	14 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	15 U	12 U	100	14 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND
Kerosene	15 U	12 U	15 U	14 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND	ND
TPH (as C20)	ND	8.7	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00206

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)	Sample Identification				
-----	-----				
Sample ID	C-2-1B	C-2-2B	C-2-3B	C-3-1B	C-3-2B
Lab ID	2271801	2271802	2271803	2271804	2271805
Date Extracted	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
Date Analyzed	12/23/94	12/23/94	12/23/94	12/23/94	12/24/94
% Moisture	21	20	26	18	20
Dilution factor	1	1	1	1	1
#2 Fuel Oil	13 U	13 U	14 U	12 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	13 U	13 U	14 U	12 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	13 U	13 U	14 U	12 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND
Kerosene	13 U	13 U	14 U	12 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND	ND
TPH (as C20)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00207

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)	Sample Identification			
-----	-----			
Sample ID	C-4-1B	C-4-2B	C-5-2B	C-5-1B
Lab ID	2271806	2271807	2271808	2271809
Date Extracted	12/15/94	12/15/94	12/15/94	12/15/94
Date Analyzed	12/24/94	12/24/94	12/24/94	12/24/94
% Moisture	11	12	28	20
Dilution factor	1	1	1	1

#2 Fuel Oil	11 U	11 U	14 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND
#6 Fuel Oil	11 U	11 U	14 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND
Lubricating Oil	11 U	11 U	14 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND
Kerosene	11 U	11 U	14 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND
TPH (as C20)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00208

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)	Sample Identification		
-----	-----		
Sample ID	C-5-1BMS	C-5-1BMSD	FBLK23
Lab ID	2271810	2271811	GSB1215B
Date Extracted	12/15/94	12/15/94	12/15/94
Date Analyzed	12/24/94	12/24/94	12/23/94
% Moisture	20	20	NA
Dilution factor	1	1	1

#2 Fuel Oil	77	86	10 U
TPH (as #2 Fuel Oil)	ND	ND	ND
#6 Fuel Oil	13 U	13 U	10 U
TPH (as #6 Fuel Oil)	ND	ND	ND
Lubricating Oil	13 U	13 U	10 U
TPH (as Lubricating Oil)	ND	ND	ND
Kerosene	13 U	13 U	10 U
TPH (as Kerosene)	ND	ND	ND
TPH (as C20)	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00209

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22731

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	B-1-1B	B-1-2B	B-1-3B	B-2-1B	B-2-1BRE
Lab ID	2273101	2273102	2273103	2273104	2273104
Date Extracted	12/16/94	12/16/94	12/16/94	12/16/94	01/05/95
Date Analyzed	12/24/94	12/22/94	12/22/94	12/22/94	01/06/95
% Moisture	9	24	24	19	19
Dilution factor	1	1	1	1	1
#2 Fuel Oil	440	13 U	100	12 U	12 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	11 U	13 U	13 U	12 U	12 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	11 U	13 U	13 U	12 U	12 U
TPH (as Lubricating Oil)	39	ND	ND	ND	ND
Kerosene	11 U	13 U	13 U	12 U	12 U
TPH (as Kerosene)	ND	ND	ND	ND	ND
TPH (as C20)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00171

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22731

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	B-2-2B	B-2-3B	B-3-1B	B-3-2B	B-3-3B
Lab ID	2273105	2273108	2273109	2273110	2273111
Date Extracted	12/16/94	12/16/94	12/16/94	12/16/94	12/16/94
Date Analyzed	12/22/94	12/22/94	12/23/94	12/23/94	12/23/94
% Moisture	26	30	15	15	21
Dilution factor	1	1	1	1	1
#2 Fuel Oil	14 U	14 U	12 U	12 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	14 U	14 U	12 U	12 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	14 U	14 U	12 U	12 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND
Kerosene	14 U	14 U	12 U	12 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND	ND
TPH (as C20)	ND	ND	4.1	3.3	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00172

GC FUEL  
REPORT OF ANALYSIS

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Login No.: 22731

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)	Sample Identification			
-----	-----			
Sample ID	B-2-2BMS	B-2-2BMSD	FBLK19	FBLK24
Lab ID	2273106	2273107	GSB1216A	GSB0105A
Date Extracted	12/16/94	12/16/94	12/16/94	01/05/95
Date Analyzed	12/22/94	12/22/94	12/21/94	01/06/95
% Moisture	26	26	NA	NA
Dilution factor	1	1	1	1
#2 Fuel Oil	130	130	10 U	10 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND
#6 Fuel Oil	14 U	14 U	10 U	10 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND
Lubricating Oil	14 U	14 U	10 U	10 U
TPH (as Lubricating Oil)	ND	ND	ND	ND
Kerosene	14 U	14 U	10 U	10 U
TPH (as Kerosene)	ND	ND	ND	ND
TPH (as C20)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00173

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	B-4-1B	B-4-2B	B-4-3B	A-1-1B	A-1-1BRE
Lab ID	2274501	2274502	2274503	2274504	2274504
Date Extracted	12/16/94	12/16/94	12/16/94	12/16/94	01/05/95
Date Analyzed	12/23/94	12/21/94	12/21/94	12/21/94	01/06/95
% Moisture	17	26	20	20	20
Dilution factor	1	1	1	1	1
#2 Fuel Oil	12 U	14 U	13 U	13 U	13 U
TPH (as #2 Fuel Oil)	80	ND	ND	ND	ND
#6 Fuel Oil	12 U	14 U	13 U	13 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	12 U	14 U	13 U	13 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND
Kerosene	12 U	14 U	13 U	13 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00168

GC FUEL  
REPORT OF ANALYSIS

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Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	A-1-2B	A-1-3B	A-2-1B	A-2-2B	A-2-2BRE
Lab ID	2274505	2274508	2274509	2274510	2274510
Date Extracted	12/16/94	12/16/94	12/16/94	12/16/94	01/05/95
Date Analyzed	12/21/94	12/21/94	12/23/94	12/21/94	01/06/95
% Moisture	20	22	17	21	21
Dilution factor	1	1	1	1	1
#2 Fuel Oil	13 U	13 U	12 U	13 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	13 U	13 U	12 U	13 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	13 U	13 U	12 U	13 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND
Kerosene	13 U	13 U	12 U	13 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00169

GC FUEL  
REPORT OF ANALYSIS

---

Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	A-2-3B	A-3-1B	A-3-2B	A-3-3B
Lab ID	2274511	2274512	2274513	2274514
Date Extracted	12/16/94	12/16/94	12/16/94	12/16/94
Date Analyzed	12/22/94	12/23/94	12/22/94	12/22/94
% Moisture	21	16	20	20
Dilution factor	1	1	1	1
#2 Fuel Oil	13 U	12 U	13 U	13 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND
#6 Fuel Oil	13 U	12 U	13 U	13 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND
Lubricating Oil	13 U	12 U	13 U	13 U
TPH (as Lubricating Oil)	ND	ND	ND	ND
Kerosene	13 U	12 U	13 U	13 U
TPH (as Kerosene)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00170

GC FUEL  
REPORT OF ANALYSIS

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Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry wt.):

Matrix : SOIL

Parameter(s) -----	Sample Identification -----			
Sample ID	A-1-2BMS	A-1-2BMSD	FBLK20	FBLK24
Lab ID	2274506	2274507	GSB1216B	GSB0105A
Date Extracted	12/16/94	12/16/94	12/16/94	01/05/95
Date Analyzed	12/21/94	12/21/94	12/21/94	01/06/95
% Moisture	20	20	NA	NA
Dilution factor	1	1	1	1
#2 Fuel Oil	78	77	10 U	10 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND
#6 Fuel Oil	13 U	13 U	10 U	10 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND
Lubricating Oil	13 U	13 U	10 U	10 U
TPH (as Lubricating Oil)	ND	ND	ND	ND
Kerosene	13 U	13 U	10 U	10 U
TPH (as Kerosene)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

00171

GC GAS DATA

00264

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GC GAS  
REPORT OF ANALYSIS

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Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample Identification				
Sample ID	D-1-1B	D-1-2B	D-1-3B	D-2-1B	D-2-2B
Lab ID	2271401	2271402	2271403	2271404	2271405
Date Received	12/10/94	12/10/94	12/10/94	12/10/94	12/10/94
Date Analyzed	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
% Moisture	19	22	32	22	21
Dilution factor	1	1	1	1	1
Gasoline	0.12 U	0.13 U	0.15 U	0.13 U	0.13 U
TPH (as Gasoline)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00265

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample Identification				
-----	-----				
Sample ID	D-2-3B	C-1-1B	C-1SED	C-2SED	C-3SED
Lab ID	2271406	2271407	2271408	2271409	2271410
Date Received	12/10/94	12/10/94	12/10/94	12/10/94	12/10/94
Date Analyzed	12/16/94	12/15/94	12/15/94	12/15/94	12/15/94
% Moisture	32	16	33	27	24
Dilution factor	1	1	1	1	1
Gasoline	0.15 U	0.12 U	0.15 U	0.14 U	0.13 U
TPH (as Gasoline)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00266

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	C-2-1B	C-2-2B	C-2-3B	C-3-1B	C-3-2B
Lab ID	2271801	2271802	2271803	2271804	2271805
Date Received	12/13/94	12/13/94	12/13/94	12/13/94	12/13/94
Date Analyzed	12/16/94	12/16/94	12/16/94	12/16/94	12/16/94
% Moisture	21	20	26	18	20
Dilution factor	1	1	1	1	1
Gasoline	0.13 U	0.13 U	0.14 U	0.12 U	0.13 U
TPH (as Gasoline)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00267

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample Identification			
-----	-----			
Sample ID	C-4-1B	C-4-2B	C-5-2B	C-5-1B
Lab ID	2271806	2271807	2271808	2271809
Date Received	12/13/94	12/13/94	12/13/94	12/13/94
Date Analyzed	12/16/94	12/16/94	12/16/94	12/16/94
% Moisture	11	12	28	20
Dilution factor	1	1	1	1

Gasoline	0.11 U	0.11 U	0.14 U	0.13 U
TPH (as Gasoline)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00263

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22714 & 22718

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	C-5-1BMS	C-5-1BMSD	VBK03	VBK05	VBK07
Lab ID	2271810	2271811	VBK03	VBK05	VBK07
Date Received	12/13/94	12/13/94	NA	NA	NA
Date Analyzed	12/16/94	12/16/94	12/14/94	12/15/94	12/16/94
% Moisture	20	20	NA	NA	NA
Dilution factor	1	1	1	1	1
Gasoline	0.40	0.40	0.10 U	0.10 U	0.10 U
TPH (as Gasoline)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00269

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22731

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	B-1-1B	B-1-2B	B-1-3B	B-2-1B	B-2-2B
Lab ID	2273101	2273102	2273103	2273104	2273105
Date Received	12/14/94	12/14/94	12/14/94	12/14/94	12/14/94
Date Analyzed	12/20/94	12/20/94	12/20/94	12/20/94	12/22/94
% Moisture	9	24	24	19	26
Dilution factor	1	1	1	1	1

Gasoline	0.11 U	0.13 U	0.13 U	0.12 U	0.14 U
TPH (as Gasoline)	0.89	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00128

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22731

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample Identification			
-----	-----			
Sample ID	B-2-3B	B-3-1B	B-3-2B	B-3-3B
Lab ID	2273108	2273109	2273110	2273111
Date Received	12/14/94	12/14/94	12/14/94	12/14/94
Date Analyzed	12/22/94	12/20/94	12/20/94	12/20/94
% Moisture	30	15	15	21
Dilution factor	1	1	1	1

Gasoline	0.14 U	0.12 U	0.12 U	0.13 U
TPH (as Gasoline)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00123

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22731

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample Identification			
-----	-----			
Sample ID	B-2-2BMS	B-2-2BMSD	VBK50	VBK53
Lab ID	2273106	2273107	VBK50	VBK53
Date Received	12/14/94	12/14/94	NA	NA
Date Analyzed	12/22/94	12/22/94	12/20/94	12/22/94
% Moisture	26	26	NA	NA
Dilution factor	1	1	1	1
Gasoline	0.48	0.46	0.10 U	0.10 U
TPH (as Gasoline)	NA	NA	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00130

GC GAS  
REPORT OF ANALYSIS

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Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

Sample ID	B-4-1B	B-4-2B	B-4-3B	A-1-1B	A-1-2B
Lab ID	2274501	2274502	2274503	2274504	2274505
Date Received	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
Date Analyzed	12/21/94	12/21/94	12/21/94	12/21/94	12/21/94
% Moisture	17	26	20	20	20
Dilution factor	1	1	1	1	1

Gasoline	0.12 U	0.14 U	0.13 U	0.13 U	0.13 U
TPH (as Gasoline)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00116

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)

Sample Identification

-----	-----	-----	-----	-----	-----
Sample ID	A-1-3B	A-2-1B	A-2-2B	A-2-3B	A-3-1B
Lab ID	2274508	2274509	2274510	2274511	2274512
Date Received	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
Date Analyzed	12/21/94	12/22/94	12/21/94	12/22/94	12/22/94
% Moisture	22	17	21	20	16
Dilution factor	1	1	1	1	1

Gasoline	0.13 U	0.12 U	0.13 U	0.13 U	0.12 U
TPH (as Gasoline)	ND	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00117

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample	Identification
--------------	--------	----------------

Sample ID	A-3-2B	A-3-3B
Lab ID	2274513	2274514
Date Received	12/15/94	12/15/94
Date Analyzed	12/22/94	12/22/94
% Moisture	20	20
Dilution factor	1	1

Gasoline	0.13 U	0.13 U
TPH (as Gasoline)	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

00118

GC GAS  
REPORT OF ANALYSIS

---

Login No.: 22745

We find as follows:

Results in ppm, mg/kg (Dry Wt.):

Matrix : SOIL

Parameter(s)	Sample Identification			
-----	-----			
Sample ID	A-1-2BMS	A-1-2BMS	VBLK51	VBLK52
Lab ID	2274506	2274507	VBLK51	VBLK52
Date Received	12/15/94	12/15/94	NA	NA
Date Analyzed	12/21/94	12/22/94	12/21/94	12/22/94
% Moisture	20	20	NA	NA
Dilution factor	1	1	1	1
Gasoline	0.51	0.42	0.10 U	0.10 U
TPH (as Gasoline)	ND	ND	ND	ND

ND = Not Detected

\* TPH (as Gasoline) = Total Volatile hydrocarbons quantitated as gasoline, however, peak pattern does not match that of the Gasoline reference standard.

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METALS DATA

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00339



SAMPLE NO.

D-1-3B

QC Report No.22714

Lab Sample ID: 271403

Date Received: 12/10/94

Percent Solids : 68.1

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

D-1-3B

00341

## INORGANICS ANALYSIS DATA SHEET

D-2-1B

Contract: 9421444

Login No.: 22714\_

QC Report No.22714\_

Lab Sample ID: 271404

Date Received: 12/10/94

Percent Solids : 78.5

[illegible]

DES :  
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

D-2-1B

00342

SAMPLE NO.

Contract: 9421444

QC Report No.22714

Lab Sample ID: 271405

Date Received: 12/10/94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

D-2-2B

00343

00344



## INORGANICS ANALYSIS DATA SHEET

**C-1SED**

Percent Solids : 67.3

00346

**SAMPLE NO.**

Contract: 9421444

QC Report No.22714

Date Received: 12/10/94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

C-2SED

00347

## INORGANICS ANALYSIS DATA SHEET

C-3SED

Contract: 9421444

QC Report No.22714\_

Lab Sample ID: 271410

Date Received: 12/10/94

Percent Solids : 75.6

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

C-3SED

00348

SAMPLE NO.

C-2-1B

QC Report No.22714

Lab Sample ID: 271801

Date Received: 12/13/94

Percent Solids : 79.4

[illegible]

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

C-2-1B

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

C-2-2B

Lab Name: NYTEST\_ENV\_INC.\_\_\_\_\_

Contract: 9421444

Lab Code: NYTEST

Login No.: 22714\_

QC Report No.22714\_

Matrix (soil/water): SOIL\_

Lab Sample ID: 271802

Level (low/high) : LOW

Date Received: 12/13/94

Percent Solids : 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

C-2-2B

00350



## INORGANICS ANALYSIS DATA SHEET

C-3-1B

Lab Sample ID: 271804  
Date Received: 12/13/94

00352

SAMPLE NO.

Lab Sample ID: 271805  
Date Received: 12/13/94

00353

## INORGANICS ANALYSIS DATA SHEET

C-4-1B

Contract: 9421444

Login No.: 22714

QC Report No.22714

Lab Sample ID: 271806

Date Received: 12/13/94

Percent Solids : 88.8

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

C-4-1B

00354

SAMPLE NO.

00355

# INORGANICS ANALYSIS DATA SHEET

C-5-2B

Lab Sample ID: 271808\_\_\_\_\_  
Date Received: 12/13/94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

C-5-2B

00356

00357

## INORGANICS ANALYSIS DATA SHEET

B-1-1B

Contract: 9421444

Login No.: 22731

QC Report No.22731

Lab Sample ID: 273101

Date Received: 12/14/94

Percent Solids : 91.4

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

B-1-1B

00227

SAMPLE NO.

Contract: 9421444

B-1-2B

Login No.: 22731

QC Report No.22731

Lab Sample ID: 273102

Date Received: 12/14/94

Percent Solids : 76.2

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

B-1-2B

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B-1-3B

Lab Name: NYTEST\_ENV\_INC. Contract: 9421444

Lab Code: NYTEST Login No.: 22731 QC Report No.22731

Matrix (soil/water): SOIL Lab Sample ID: 273103  
 Level (low/high) : LOW Date Received: 12/14/94  
 Percent Solids : 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	4.7	U		P
7440-38-2	Arsenic	2.6		*	F
7440-41-7	Beryllium	1.3			P
7440-43-9	Cadmium	0.43	B		P
7440-47-3	Chromium	39.6		*	P
7440-50-8	Copper	25.5		N*	P
7439-92-1	Lead	17.4			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	38.9		*	P
7782-49-2	Selenium	0.62	U		F
7440-22-4	Silver	0.75	U		P
7440-28-0	Thallium	0.62	U		F
7440-66-6	Zinc	83.1		N*	P

CODES :  
 P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
 Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:  
 B-1-3B

SAMPLE NO.

B-2-1B

Lab Name: NYTEST ENV INC. Contract: 9421444

La Code: NYTEST Login No.: 22731

QC Report No.22731

Matrix (soil/water): SOIL

Lab Sample ID: 273104

Level (low/high) : LOW

Date Received: 12/14/94

Percent Solids : 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

B-2-1B

00230

## INORGANICS ANALYSIS DATA SHEET

B-2-2B

Lab Sample ID: 273105\_\_\_\_\_  
Date Received: 12/14/94

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

B-2-2B

00231

SAMPLE NO.

B-2-3B

QC Report No.22731\_

Date Received: 12/14/94

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

B-2-3B

## INORGANICS ANALYSIS DATA SHEET

B-3-1B

Contract: 9421444

Login No.: 22731

QC Report No.22731

Lab Sample ID: 273109  
Date Received: 12/14/94

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

B-3-1B

SAMPLE NO.

Matrix (soil/water): SOIL\_ Lab Sample ID: 273110  
Level (low/high) : LOW Date Received: 12/14/94  
Percent Solids : 84.7

[illegible]

B-3-2B

00234



00226

# INORGANICS ANALYSIS DATA SHEET

**B-4-2B**

00227

SAMPLE NO.

Lab Name: NYTEST\_ENV\_INC.

Contract: 9421444

**B-4-3B**

**Lab Code: NYTEST**

Login No.: 22745\_

QC Report No.22745\_

Matrix (soil/water): SOIL

Level (low/high) : LOW

Percent Solids : 79.9

Lab Sample ID: 274503

Date Received: 12/15/94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

**CODES :**

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

B-4-3B

00228

## INORGANICS ANALYSIS DATA SHEET

A-1-1B

Contract: 9421444

QC Report No.22745\_

Lab Sample ID: 274504

Date Received: 12/15/94

Percent Solids : 79.7

[illegible]

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

A-1-1B

00229

SAMPLE NO.

A-1-2B

QC Report No.22745

Lab Sample ID: 274505

Date Received: 12/15/94

Percent Solids : 79.5

[illegible]

**CODES :**

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.  
ments:

comments:

A-1-2B



## INORGANICS ANALYSIS DATA SHEET

**A-2-1B**

Contract: 9421444

Login No.: 22745

QC Report No.22745

Lab Sample ID: 274509

Date Received: 12/15/94

Percent Solids : 82.7

[illegible]

**CODES :**

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

A-2-1B

00232

## INORGANICS ANALYSIS DATA SHEET

**A-2-2B**

Contract: 9421444

Login No.: 22745

QC Report No.22745

Lab Sample ID: 274510

Date Received: 12/15/94

Percent Solids : 78.7

[illegible]

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric  
Note: A "U" in the "C" (Concentration) column indicates the analyte was  
not detected in this sample; "B" = Sample value greater than Instrument  
Detection Limit, but less than reporting limit; "NR" = Not Required.

A-2-2B

00233

**A-2-3B**

Lab Name: NYTEST\_ENV\_INC.\_\_\_\_\_ Contract: 9421444\_\_\_\_\_

Lab Code: NYTEST      Login No.: 22745      QC Report No.22745

Matrix (soil/water): SOIL\_                      Lab Sample ID: 274511\_  
Level (low/high) : LOW                          Date Received: 12/15/94  
Percent Solids : 79.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

**CODES :**

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

A-2-3B

00234

## INORGANICS ANALYSIS DATA SHEET

**A-3-1B**

Lab Sample ID: 274512  
Date Received: 12/15/94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

**CODES :**

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

A-3-1B

00235







NYTEST ENVIRONMENTAL INC.

DUPLICATES

SAMPLE NO.

Lab Name: NYTEST ENV INC.

Contract: 9421444

C-5-1BMS

Lab Code: NYTEST      Login No.: 22714

QC Report No. : 22714

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 80.5

% Solids for Duplicate: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

NR : Analyte Not Requested

## ICP SERIAL DILUTION

C-5-1BL

QC Report No.: 22714\_

Level (low/med): LOW

[illegible]

NEI FORM 12 - 1/94

# MATRIX SPIKE RECOVERY DATA SHEET

B-2-2BMSD

NYTEST ENVIRONMENTAL INC.

SAMPLE NO.

DUPLICATES

Lab Name: NYTEST ENV INC.

Contract: 9421444

B-2-2BMS

Lab Code: NYTEST Login No.: 22731

QC Report No. : 22731

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 74.5

% Solids for Duplicate: 74.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

NR: Analyte Not Requested

SAMPLE NO.

B-2-2BL

Level (low/med): LOW\_\_

NYTEST ENVIRONMENTAL INC.

SAMPLE NO.

# MATRIX SPIKE RECOVERY DATA SHEET

Lab Name: NYTEST ENV INC.

Contract: 9421444

A-1-2BMSD

Lab Code: NYTEST

Login No.: 22745

QC Report No. : 22745

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments:

A-1-2BMSD

NR : Analyte Not Required

NYTEST ENVIRONMENTAL INC.

DUPLICATES

SAMPLE NO.

Lab Name: NYTEST\_ENV\_INC.

Contract: 9421444

A-1-2BMS

Lab Code: NYTEST      Login No.: 22745

QC Report No. : 22745

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 79.5

% Solids for Duplicate: 77.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

NR : Analyte Not Requested

## ICP SERIAL DILUTION

A-1-2BL

Level (low/med): LOW

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# NYTEST ENVIRONMENTAL INC.

## INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field  
Seal on Sample Shuttle & Accepting  
Responsibility for Sample

NAME: R. Fletcher

TITLE: JCO

Client: Op Tech

Date Broken 12/1/94

Military Time Seal Broken: 6936

Login #: 22731

PP Met GC Fuel, GC 45 T8270 T8240  
Analytical Parameter/Fraction:

SAMPLE NO.	ALIQOT/EXTRACT NO.	SAMPLE NO.	ALIQOT/EXTRACT NO.
22731-01	B-1-1B		
" - 02	B-1-2B		
" - 03	B-1-3B		
" - 04	B-2-1B		
" - 05	B-2-2B		
" - 06	B-2-2B MS		
" - 07	B-2-2B MSD		
" - 08	B-2-3B		
" - 09	B-3-1B		
" - 10	B-3-2B		
" - 11	B-3-3B		

DATE	TIME	RELINQUISHED BY	RECIEVED BY	PURPOSE OF CHANGE OF CUST.
12/1/94	0800	PRINTED NAME <u>P. Pierides</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>C. Vass</u> SIGNATURE <u>C. Vass</u>	T8270 GC Fuel
12/1/94	0805	PRINTED NAME <u>P. Pierides</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>S. Curver</u> SIGNATURE <u>S. Curver</u>	T8240
12/3/94	1400	PRINTED NAME <u>C. Vass</u> SIGNATURE <u>C. Vass</u>	PRINTED NAME <u>M. Lani</u> SIGNATURE <u>M. Lani</u>	Storage
1/3/95	1100	PRINTED NAME <u>S. Curver</u> SIGNATURE <u>S. Curver</u>	PRINTED NAME <u>M. Lani</u> SIGNATURE <u>M. Lani</u>	Storage
1/3/95	1105	PRINTED NAME <u>P. Pierides</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>[Signature]</u>	PP Metals
1/5/95	1300	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>P. Pierides</u> SIGNATURE <u>[Signature]</u>	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	00002

# NYTEST ENVIRONMENTAL INC.

## INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field  
Seal on Sample Shuttle & Accepting  
Responsibility for Sample

NAME: Robert Fletcher TITLE: SCO

Client: <u>DPTech</u>	Date Broken: <u>12/15/94</u>	Military Time Seal Broken: <u>1000</u>
Login #: <u>22745</u>	Analytical Parameter/Fraction: <u>PP Metals, GC Fuel, GC Gas, T827D</u>	

SAMPLE NO.	ALIQOT/EXTRACT NO.	SAMPLE NO.	ALIQOT/EXTRACT NO.
B-4-1B	22745-01	A-2-3B	22745-11
B-4-2B	02	A-3-1B	12
B-4-3B	03	A-3-2B	13
A-1-1B	04	A-3-3B	14
A-1-2B	05		
A-1-2Bms	06		
A-1-2BmsD	07		
A-1-3B	08		
A-2-1B	09		
A-2-2B	10		

DATE	TIME	RELINQUISHED BY	RECIEVED BY	PURPOSE OF CHANGE OF CUST.
12/16/94	0800	PRINTED NAME <u>P. Pizarres</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>C Voss</u> SIGNATURE <u>[Signature]</u>	GC Fuel
12/19/94	0805	PRINTED NAME <u>P. Pizarres</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>W Jawdat</u> SIGNATURE <u>[Signature]</u>	GC Gas
12/19	9:00	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>[Signature]</u> SIGNATURE <u>[Signature]</u>	VOA
12/23/94	1400	PRINTED NAME <u>C Voss</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>[Signature]</u>	Storage
1/5/95	1300	PRINTED NAME <u>H. Tujillo</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>P. Pizarres</u> SIGNATURE <u>[Signature]</u>	PP Metals
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	00003

# NYTEST ENVIRONMENTAL INC.

## INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample		NAME: <u>P. Pires</u>	TITLE: <u>SCO</u>
Client: <u>OP Tech</u>	Date Broken: <u>12/15/94</u>	Military Time Seal Broken: <u>1100</u>	
Login #: <u>22714</u>	Analytical Parameter/Fraction: <u>GC FUEL</u> <u>T8270</u> <u>GC GAS</u> <u>T8270</u>		

SAMPLE NO.	ALQUOT/EXTRACT NO.	SAMPLE NO.	ALQUOT/EXTRACT NO.
22714-61	D-1-1B		
" - 02	D-1-2B		
" - 03	D-1-3B		
" - 04	D-2-1B		
" - 05	D-2-2B		
" - 06	D-2-3B		
" - 07	C-1-1B		
" - 08	C-1-5ED		
" - 09	C-2-5ED		
" - 10	C-3-5ED		

DATE	TIME	RELINQUISHED BY	RECIEVED BY	PURPOSE OF CHANGE OF CUS.
12/13/94	0800	PRINTED NAME <u>R. Fiebler</u> SIGNATURE <u>R. Fiebler</u>	PRINTED NAME <u>W. Jawdat</u> SIGNATURE <u>W. Jawdat</u>	GC GAS T8270 GC FUEL
12/14/94	0800	PRINTED NAME <u>P. Pires</u> SIGNATURE <u>P. Pires</u>	PRINTED NAME <u>C. Voss</u> SIGNATURE <u>C. Voss</u>	
12/16/94	16:00	PRINTED NAME <u>P. Pires</u> SIGNATURE <u>P. Pires</u>	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>H. Trujillo</u>	Me for
12/20/94	1300	PRINTED NAME <u>W. Jawdat</u> SIGNATURE <u>W. Jawdat</u>	PRINTED NAME <u>P. Pires</u> SIGNATURE <u>P. Pires</u>	STORAGE
1/5/95	1305	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>H. Trujillo</u>	PRINTED NAME <u>P. Pires</u> SIGNATURE <u>P. Pires</u>	STORAGE
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	00005

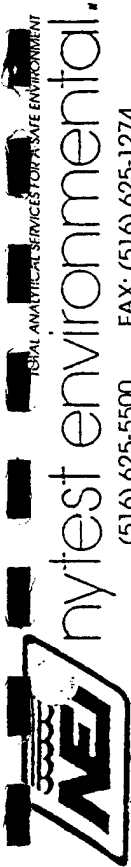
# NY TEST ENVIRONMENTAL INC.

## INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			NAME: <u>Pier Piarides</u>	TITLE: <u>SEO</u>
Client: <u>OPTECH</u>	Date Broken: <u>12/13/94</u>	Military Time Seal Broken: <u>0930</u>		
Login #: <u>22718</u>	Analytical Parameter/Fraction: <u>Pmetals, GCfuel, GC625, T8240, 822</u>			

SAMPLE NO.	ALQUOT/EXTRACT NO.	SAMPLE NO.	ALQUOT/EXTRACT NO.
C-2-1B	22718-01	C-5-1BMSD	22718-11
C-2-2B	02		
C-2-3B	03		
C-3-1B	04		
C-3-2B	05		
C-4-1B	06		
C-4-2B	07		
C-5-2B	08		
C-5-1B	09		
C-5-1BMS	10		

DATE	TIME	RELINQUISHED BY	RECIEVED BY	PURPOSE OF CHANGE OF CUS
12/14/94	1150	PRINTED NAME <u>P. Piarides</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>CVoss</u> SIGNATURE <u>[Signature]</u>	GC Fuel T8240
12/15/94	0800	PRINTED NAME <u>P. Piarides</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>Scarver</u> SIGNATURE <u>[Signature]</u>	T8240
12/16/94	16:00	PRINTED NAME <u>P. Piarides</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>[Signature]</u>	Metals
12/20/94	1300	PRINTED NAME <u>CVoss</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>P. Piarides</u> SIGNATURE <u>[Signature]</u>	Storage
12/23/94	1400	PRINTED NAME <u>Scarver</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>[Signature]</u>	Storage
12/27/94	1305	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>[Signature]</u>	PRINTED NAME <u>P. Piarides</u> SIGNATURE <u>[Signature]</u>	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	00006



nytest environmental  
(516) 625-5500 FAX: (516) 625-1274

Client Name Optigen  
Address 1100 Ave. Loop 410 Suite 230  
San Antonio, TX 78229  
Project Manager Eric Proctor / Mark Escobar  
Phone (210) 731-0000 FAX (210) 731-0008  
Project Name TERRELLA'S PARENTS ABLES  
Project Number 1315-105  
P.O. #  
Analytical Protocol As per Sub Deliverables  
Sampled By Eric C. Proctor II

Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Location
B	- 4 - 1 B	12/11/01	13:16	B-001 BH 1st 1
B	- 4 - 2 B	"	13:16	B-004 BH 1st 2
B	- 4 - 3 B	"	13:15	B-004 BH 1st 3
A	- 1 - 1 B	"	11:05	A-001 BH 1st 1
A	- 1 - 2 B	"	11:12	A-001 BH 1st 2
A	- 1 - 3 B	"	11:17	A-001 BH 1st 3
A	- 1 - 4 B	"	11:50	A-001 BH 1st 4
A	- 2 - 1 B	"	13:40	A-002 BH 1st 1
A	- 2 - 2 B	"	13:45	A-002 BH 1st 2
A	- 2 - 3 B	12/14/01	14:25	A-002 BH 1st 3

Relinquished by: Eric Proctor II  
Print Name: Eric Proctor II  
Relinquished by:  
Print Name:  
Relinquished by:  
Print Name:  
Relinquished by:  
Print Name:

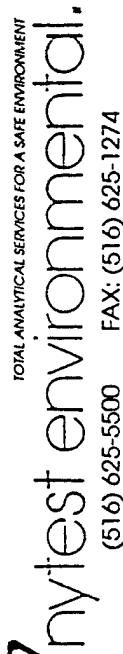
Date / Time  
12/11 1700  
Received by:  
Print Name:  
Received by:  
Print Name:  
Received by Laboratory:  
Print Name:

Analysis Requested  
VOC SW 8240  
SVOC SW 8270  
TPH BOIS Mod  
Metals SW 6010  
Metals Follows  
Bin #s In / Out (For Lab Use Only)  
No. of Containers  
2  
2  
2  
2  
2  
2  
2  
2  
2  
2  
2

Bin #s In / Out (For Lab Use Only)	No. of Containers
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2
	2

Lab Use Only  
Custody Seals: Intact Broken Absent  
Sample Rec'd in Good Condition? Y N  
Sample Temperature: Degrees Celsius  
INSPECTED BY:  
COMMENTS:

# Chain of Custody Record



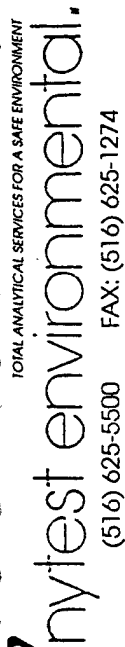
# Chain of Custody Record

**page #: \_\_\_\_\_ of \_\_\_\_\_**

[illegible]

**Special Instructions :**

CLIENT RETAINS VIEWING COPY ONLY



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

# Chain of Custody Record

page #: 1 of

Client Name <u>OPTECH</u>				Analysis Requested					
Address <u>4100 NW Loop 410 Suite 230</u> <u>San Antonio TX 78229</u>									
Project Manager <u>Earl Parker / Mark Escobar</u>									
Phone <u>(210) 731-0000</u> FAX <u>(210) 731-0008</u>									
Project Name <u>Jefferson Barracks ARMS</u>									
Project Number <u>1315-105</u>									
P.O. # _____									
Analytical Protocol <u>As per SOW</u> Deliverables <u>As per SOW</u>									
Sampled By <u>Earl Parker</u>									
Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Location	No. of Containers	SVOC SW 8270	TPH BOIS Mod	METALS SW 6010	VOCs SW 8240
D - 1 - 1 B	12/7/99	0740	D-001 BH Int 1		X				
D - 1 - 2 B	"	1000	D-001 BH Int 2		X				
D - 1 - 3 B	"	1020	D-001 BH Int 3		X				
D - 2 - 1 B	"	1220	D-002 BH Int 1		X				
D - 2 - 2 B	"	1230	D-002 BH Int 2		X				
D - 2 - 3 B	"	1300	D-002 BH Int 3		X				
C - 1 - 1 B	"	1630	C-001 BH Int 1		X				
C - 1 - 5 E D	"		C-001 SEDIMENT		X				
C - 2 - 5 E D	"		C-002 SEDIMENT		X				
C - 3 - 5 E D	"		C-003 SEDIMENT		X				
Relinquished by: <u>Earl Parker</u>				Received by: <u># 30934485</u>		Date / Time <u>12/14/99</u>		Lab Use Only	
Print Name: <u>Earl E Parker II</u>				Print Name: <u>FED-EX DELIVERY</u>		Date / Time <u>12/14/99</u>		Custody Seals: Intact Broken Absent	
Relinquished by:				Received by:		Date / Time		Sample Rec'd in Good Condition?: Y N	
Print Name:				Print Name:		Date / Time		Sample Temperature: Degrees Celsius	
Relinquished by:				Received by Laboratory:		Date / Time		INSPECTED BY:	
Print Name:				Print Name:		Date / Time		COMMENTS:	
Special Instructions: <u>Analyze AS per SOW in Contract w/ Optech Job 1315-105</u>									

Special Instructions: Analyze AS and spin in Contact w/ OptTech Job 1315-105

**CLIENT RETAINS YELLOW COPY ONLY**



# Chain of Custody Record

page #: 1 of 1

Client Name <u>DETECH</u>		Address <u>4100 New Loop 410, Suite 230</u> <u>San Antonio, TX 78779</u>		Project Manager <u>Evel Parker / Alast Escobar</u>		Phone <u>210-731-0000</u> FAX <u>210-731-0008</u>		Project Name <u>JEFFERSON ROBBERS</u>		Project Number <u>1315-105</u>		P.O. #		Analytical Protocol <u>As Per 5000</u>		Deliverables	
Sampled By <u>Evel Parker</u>		Sample ID (Maximum of 6 Characters)		Date Sampled		Time Sampled		Sample Location		No. of Containers		Analysis Requested		Bin #s In/Out (For Lab Use Only)		Comments	
Lab ID (Lab Use Only)		B1		12/13/11		0850		B-001 BH Int 1		2		VOC SW 8240					
		B2		"		0910		B-001 BH Int 2		2		TPH 8015 Med					
		B3		"		1050		B-001 BH Int 3		2		SVOC SW 8270					
		B4		"		1255		B-002 BH Int 1		2							
		B5		"		1305		B-002 BH Int 2		2							
		B6		"		1421		B-002 BH Int 3		2							
		B7		"		1520		B-003 BH Int 1		2							
		B8		"		1530		B-003 BH Int 2		2							
		B9		"				B-003 BH Int 3		2							
		B10		12/13/11		1305		B-002 BH Int 2 MS/MSO		2							
Relinquished by: <u>Evel Parker</u>		Date / Time <u>12/13/11</u> <u>1435</u>		Received by: <u>FED-EX</u>		Date / Time <u>12/13/11</u> <u>1635</u>		Print Name: <u>3816744660</u>		Date / Time <u>12/13/11</u> <u>1635</u>		Lab Use Only		Custody Seals: Intact		Broken	
Relinquished by: <u>Evel Parker</u>		Date / Time <u>12/13/11</u> <u>1435</u>		Received by:		Date / Time		Print Name:		Date / Time		Sample Rec'd in Good Condition?		Y		N	
Print Name:		Date / Time		Received by Laboratory:		Date / Time		Print Name:		Date / Time		Sample Temperature:		Degrees Celsius		INSPECTED BY:	
Relinquished by:		Date / Time		Received by Laboratory:		Date / Time		Print Name:		Date / Time		COMMENTS:					
Print Name:		Date / Time		Received by Laboratory:		Date / Time		Print Name:		Date / Time							

Special Instructions: Analyze As per SW-846, Contained 1315-105

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